



ALBERT ROY DAVIS



WALTER C. RAWLS, JR.

Also by Albert Roy Davis and Walter C. Rawls, Jr.

Magnetism and Its Effects on the Living System. This book explains for the first time how magnetism affects your life and the life of all living systems around you. The result of years of investigation into the laws of magnetism, it explains the discovery that a magnet has not one effect on the living system but two effects, each supplied by the two forms of energy transmitted from each pole. You or any other qualified person can reproduce the projects in this book. *Fully Illustrated*

"MUST reading for all who want to know how to make use of this coming new science of magnetic healing."

—HAROLD SHERMAN, Chairman, ESP Research Foundation

The Rainbow in Your Hands. This is the first book that correctly identifies body energies in an easy-to-understand manner for you to help yourself and others. YOU can be a natural healer, and if you already are, the information in this book will help you be a better one. Every person can be helped by applying the exciting facts that have been tested for results which will be accurate for you as they are for others. All natural science followers will be interested in the importance of new facts to the fields of parapsychology and ESP. Facts never made public before can now be tested and used by all who apply the simple methods explained in this book.

The Magnetic Blueprint of Life. Written with forcefulness and precision, this is a comprehensive guide to the effect of magnetism upon the air we breathe, the food we eat, the exercise we take. It is an eloquent plea to the scientific community to reconsider the significance of basic magnetism . . . the "most important energy in Nature."

THE MAGNETIC BLUEPRINT OF LIFE

A comprehensive guide affecting the air we breathe, the water we drink, the food we eat, the exercise we take



ALBERT ROY DAVIS

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AUTHORS OF *THE RAINBOW IN YOUR HANDS*
AND *THE MAGNETIC EFFECT*

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THE MAGNETIC BLUEPRINT OF LIFE

**ALBERT ROY DAVIS
and
WALTER C. RAWLS, JR.**

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INTRODUCTION

This book presents important information that will help you to understand and overcome many health difficulties, and also to realize and seek more natural methods for health, healing, and happiness.

This is a constructive presentation determined by facts. There is no intention by your authors to be cynical or pessimistic; rather, we believe our studies and findings are optimistic for the human race.

Mankind has survived unbelievable and unbearable turmoil. As scientists with a firm belief in God, we believe that fact and reason give strength to survival. This is notwithstanding doomsday judges in this generation, as they have existed in every epoch of the past.

By glancing at the table of contents, the reader can see that this book covers a wide range of topics. The subject matter is of personal concern to the authors, who have devoted their lives to the research and investigation into natural sciences in the laboratory, the cities, in the countryside, and the United States and foreign countries. This research has produced a new understanding of endangered health, inner fears of conflict, and the prevalent inability to find treatments that are cures. We believe these result from the lack of knowledge and application of basic laws in natural sciences.

This book is for the general reader as well as the professional. Natural sciences affect every person, regardless of race, creed, color, or vocation. Philosophy is a part of natural sciences which should not be avoided, and your authors have not hesitated in applying the "humanities" to their research findings.

Believing that human beings are imperfect creatures, we are our own worst critics. Truth is a matter of knowledge and belief, and when we find from our research a new approach, concept, or instrumentation, we realize there may be more about the matter that is not revealed. Still, as honest as we can be in our human

makeup, we believe that applications in acceptance of our research findings will bring more peace, order, and harmony to the people of our world. In this regard, this book is necessary reading for you to augment your ability of self-help, to help yourself and others for the good of all humanity. It is, in the final analysis, up to you, the individual, if new breakthroughs in science are to be adopted. We solicit your belief in our work and your assistance in furthering the adoption of our findings which, to our knowledge, will benefit you and your fellow being.

We assure you that we are putting forth our best efforts to have our discoveries adopted for your use and benefit. This is our prime objective, and petty, ridiculous, bureaucratic delays will not hinder our efforts.

The discovery that magnetism has at least two separate energy fields, not one as formerly believed, is a discovery that touches upon the life of every human being in our civilization. It is a natural law that involves industry, agriculture, medical areas, and all the natural sciences. We have not found any field of knowledge to which this discovery cannot be applied for increased understanding of our being and our environment. From such a discovery we expect opposition, and it has been evident. Still, when you believe in what you are doing with humility and for the betterment of all people, striving to overcome obstacles can often become a pleasant experience. We are pleased with our tasks. We wish to you the joy of striving for the betterment of yourself and others, which is self-help according to natural laws, as we have come to believe.

The acceptance of our discoveries is spreading over the world, and by the time this book is published fewer obstacles will remain to your enjoying the many applications of the use of the separate energies of magnetism. As of this writing, several of our patents have been accepted and published in the United States and many foreign countries, and, for your reference, they are the following:

1. U.S. Patent No. 3,947,533, entitled Magnetic Field Expansion and Compression Method: a method of altering the physical properties of materials by applying the magneto-magnetic energy of the North or South pole of a magnet.

2. U.S. Patent No. 4,020,590, entitled Apparatus and Method for Exposing Seeds to a Magnetic Field: a method for increasing crop yield and nutrient value up to 30 percent and more.

3. U.S. Patent No. 4,003,769 entitled Method of Making Non-retentive Al-Ni-Co-Fe Alloy: a method of eliminating magnetic interference in the construction of appliances and hardware.

A number of applications are now pending for acceptance in the areas of medicine, energy, and others. This includes a new method of using magnetic fields to conduct a diagnostic screening examination, in a matter of minutes, without X rays or other dangerous radiation. Also pending in the medical area is a new method of treating abnormal cardiovascular conditions with the magnetic energies of a single magnetic pole. Information is pending for patent application in the treatment of pancreatitis, hypertension, and cancer.

In the energy field, information is pending for patent application that could save up to twenty-five percent fuel, improve fuel combustion, and, through the use of new energy methods, eliminate many chemicals and pollutants now in use, for a cleaner, more efficient environment.

Scientists and universities in a number of countries are reproducing our work for verification. We here call upon you to become involved in this new offering to humanity, and we wish you well and Godspeed in your endeavors. It is the authors' firm hope that the material in this book will increase your knowledge and response to health, healing, and happiness.

I

A GENERAL CONSENSUS

Truth is not in vogue; hypocrisy is the rage. Appearance is sought in deceiving one's self-help and helping others. Selfishness and materialism are on the rampage. Forms, procedures, rules, and regulations are used as escapes from improving man's natural existence with his fellowman. A new change—innovation—must follow the procedures, and it must not conflict with the positions of those who control the procedures, nor the monies expended supporting these positions. So, water will be polluted if, under this system, industrial expansion is more important than eliminating the pollution. Natural means to eliminate disease will not be stressed if they will damage the billion-dollar drug and pharmaceutical empire, and with their advertising contributions, don't look for research reports on the benefits of natural healing in science magazines supported by these advertisers. Universities and research foundations, depending on large government grants for research and subsistence, avoid researching areas that will raise the eyebrows of their moneygivers, irregardless of foreseeable benefits to health, healing, and happiness in these possible breakthroughs. Instead, billions of dollars are spent each year in research theories, speculations, and projects that have failed but, in their failure, offer new theories and speculations. New ways for health, and happiness, tried and true by scientific method, as well as intuitive belief, struggle for avenues to the people, and make many "acceptable" scientific reports and projects no better than sheer nonsense.

Society supports material rewards as progress, yet we see these persons, who are "materially well off," groping and feeling lost, and deteriorating in health, healing, and happiness. Increasing numbers in society are seeking professional help, not just for mental disorders, but simply in trying to adjust their lives to everyday living. Sociologists, psychologists, psychiatrists, and religious and social workers are trained in the procedures, forms, rules, and regulations of society, as are lawyers, doctors, and government and business personnel. We all, to some extent, instruct in attempting encouragement with the same symbols, words, dogmas, theories,

and speculations that make up the dilemma. The result, in increasing instances, is avoiding one's ability to believe and act naturally for health, healing, and happiness, benefiting ourselves and others in society.

Truth, as we are all privileged to feel and realize, is within the realm of our natural abilities. What is good for peace and order without harming others is a truth self-evident, yet some of our leading scientists, and other leaders of civilization, not only function otherwise, but write opinions and scientific treatises in their attempt to prove their selfish beliefs against this natural law.

Peace and order exist for man as they do for Nature. Misunderstandings, misapplications, selfishness, greed, and just plain ignorance have thrown into confusion and catastrophe the peace and order of Nature and man. It has become more prevalent to turn the coin on end, instead of turning the coin over to look at the other side.

Sociologically, biologically, and naturally, peace and order are the way to health, healing, and happiness—not artificial drugs, chemicals, machines, theories, and speculations. Confusion and bewilderment are evident in our society from the many mind-control fads that are providing great incomes for the controllers, and for the recipients the breakup of the family system, without consideration and action in working for an orderly society. Meditation is helpful if not abused, but this now has become big business, big income, big confusion, and disorder. Peace, order, love, and harmony, can be found in your own inner self. Look to your feelings and your thoughts, and be sincere to your own being, without turning to fads, theories, speculations, mind-programming, or big-business organizing.

False prophets are in vogue—the commercialism of religion—and your own thoughts and feelings are perhaps more prevalent than any time in history due to the aids of mass communications. Sincerity to your own inner being will expose these jackals, howling banshees that they are, who say life is nothing but conflicts, neuroses, and suffering. There is more to life. Each of us, within himself, can find this realization and act accordingly for health, healing, and happiness.

At the present stage of society, you cannot go through life without seeking the aid of a qualified doctor. We hope you find a sensible, mature man or woman with an inner compassion to

complement his or her medical books and training. Such a person can do much for you. But why allow yourself to be in need of medical treatment, when your self-help can eliminate many of your stresses and sicknesses?

We will expose some of the serious dangers of modern medicine practices, treatments, and instruments now in use, and show how you can aid yourself, how by your common sense you can live longer and better, solve your own problems by natural methods, within the realm of sensible approaches, and, as a result, have happiness and freedom from "psychological stresses." Why wait till retirement to concern yourself with your health? Commonsense methods, as simple as eating vegetables, for example, something you know you should do without having to consult a doctor, are in your ability for health, healing, and happiness.

Very little in our world's societies is really being accomplished to offer sensible answers to the many grave problems today facing every man, woman, and child. You can't look into any field of expert endeavor and find those necessary breakthroughs in action to adequately assist you in helping yourself without the aid of others, which, in most instances, does not further your self-being naturally. With all the doctors, medical specialists, researchers and educators, billions of dollars for new equipment, education and facilities, where are the answers to the "killer diseases" ravaging our societies?

There are scientists—and there are scientists. A number of scientists, including Nobel Prize winners, are under constant bombardment by government, colleges and universities, and colleagues of conventional importance. Challenges are thrown at these persons to prove further what they have already proved. Even Einstein's work is still under investigation by those trying to prove him wrong. Scientists of our present day and age are facing the same childish challenges by the armchair type of super-scientist in accepted command of the scientific community. In their own egotistical narrow-mindedness and plain stupidity, these sacred cows will not confine themselves to undermining the development of their own nation's scientific development. They reach out to scientific workers of other nations in their attempts to further old ideas and theories and to promote their own self-importance.

These faults of the system should be evident to all of us from experience and common knowledge. The facts are present and

quite apparent. If the reader wishes to pursue his investigation into this matter, he will find a surprising amount of "the pot calling the kettle black," such as the statement of Dr. Richard E. Palmer, President of the AMA, that the Secretary of the federal department of HEW is a "virtual czar" over the national health system.

An increasing number of those within the bureaucratic jungle are not only voicing their opposition but are actually trying their best to correct the system, and this is hopeful. If you wish to pursue this line of investigation further, read *The Solid Gold Stethoscope* by Edgar Berman, M.D. (Macmillan Publishing Co., Inc., New York). This is one of the best exposés of the medical-scientific bureaucracy to come along in many a year. Critics enjoy referring to this book as satire. Dr. Berman, when interviewed, has stated he "means what he has said in his publication and [it] was written in an honest attempt to show the facts."

Your authors do not represent this publication as an encyclopedia of natural healing. An excellent publication of this nature is *The Practical Encyclopedia of Natural Healing* by the editors of *Prevention* magazine (Rodale Press, Emmaus, Pennsylvania). Over 500 pages of comprehensive material is given, yet not all subjects of natural healing are discussed. This may, in fact, be an impossible task for any book presentation on natural healing. Our choice of matters in this book is from our many years of research and experience on some of the more important subjects we consider for your health, healing, and happiness.

Among the oldest killer diseases that still ravish our society are cancers. For many years we considered cancer as singular. Now we know there are a host of cancers, killing not only human beings, but animals as well. This information was proved many years before it was accepted by the rulers of the scientific community. The facts were present, not just awaiting the necessary scientific procedures to prove, as are many facts on other killer diseases available for your knowledge and self-help which are not properly investigated and adopted to our society's system because of bureaucratic and self-indulgent procedures. In 1958, a British physician named John Higginson was challenged by a skeptical scientific community when he suggested that 70 percent to 80 percent of all cancers are environmental in origin. Now many scientists believe the actual figure may be 90 percent or more.

Research biologists have developed many drugs and antibiotics

to combat an equal number of disorders, yet Nature has a way of developing an immunity to these drugs and antibiotics, and over a period of time there is less control from what at first was considered great success. It should be obvious from medical experience that such methods are not in harmony with Nature, and we should have learned by this time that Nature will respond to misuse as well as to ignorance.

The replacement of human organs received much publicized success in the news media, scientific writings, and research endeavors. Again, Nature took charge of man's attempt to ignore Nature in transplanting human hearts, kidneys, or other organs. Would one person's heart, kidneys, or other organ accept, live, and survive in another human body of the same basic type, design, and structure? Nature said "no" to this trial-and-error attempt to mechanize the wonders of Nature.

A person's heart, kidneys, or other organs must be transplanted to another body, not only of the same basic type in design and structure, but organically the same type systemically in blood, serum, plasmas, and tissues. No two bodies, although similar, are exactly the same in composition to accept such artificial mechanical tampering. The receiving body rejects and the patient dies. Nature's code of acceptance has not been comprehended and initiated.

There is some present-day research underway to stimulate the body's acceptance to foreign organs. Biologically, this simply means reducing the workings of the human defense systems to reject foreign organs, thereby allowing foreign, dissimilar organic mass into the body system.

There are outcries to outlaw altering of the human genetic system, and for good reason. The changing of the human body to accommodate medical scientists who cannot find a way to control disease is much the same as altering the design of a new car for more foot or head space. The human body is not a toy to be changed by increased demand, as the automobile manufacturers change style and design. There are better means available in most cases that are more natural and self-rewarding.

At this time in man's history we seem to be on a merry-go-round, scientifically, medically, biologically, and technically, that appears to be changing the world in advances of science and technology. In the United States, after World War II, we were the

acknowledged leaders in the scientific world, and, when only a few years ago many nations were ignorant of our scientific advances, the reversal is now underway. Now many nations have passed us in all apparent scientific departments except, perhaps, for computers. Well, what good are computers? They can save time, or do they? They are much like a fast-operating mechanical book. You give them all the answers, which depend on the basic language you feed into their mechanical and electronic brains. If the basic work is wrong, then you have more wrong answers by machine than the ego of man ever dreamed possible in his own self-foolery. The point is that we are way off in our scientific discipline. What we need is to return to the basic fundamental of using our own common sense in solving our problems.

Unless we return to a fundamental, basic freedom of choice and style of living, we will be reduced to a class of third-rate citizens. Men, women, and children were given brains. They are not animals that must be told what to eat, wear, say, and think. Over-protective and misguided directives are forcing this unthinking, mechanical living upon us, much to the delight of those who would intentionally destroy civilization and mankind's thinking processes.

In all departments of our activities, thinking, planning, health and welfare, our very lives and existence, "You endure the man who dominates you and the man who lives at your expense and the man who takes from you and the man who exalts himself over you and the man who smites you on the face." Through lack of both understanding and the desire to understand compassionately, other misdirection, regulations, controls, and directives of our increasingly mechanized civilization remove the right of self-expression—natural living—thereby not allowing us to experience those things that make life worthwhile. Citizens in all nations of the world within the progression of man's civilization, in total disregard of historical precepts, cannot think, act, and do for themselves, a privilege Nature has so strongly indicated is the path of happiness.

Nature is not a politically governed body of men and women. It is the primary and fundamental ruler of natural laws that governs all things on our earth within the world today. The skies, space, and the atmosphere demand levels of natural balance. Man's increasing advancements in his civilization, more often for the sake of additional money and power than any other reason, are leading to man's destruction by tampering with Nature's delicate balance.

Throughout this maze of self-delusion, confusion, and, often, bewilderment, there is heard more of an outcry these past few years. There is a greater interest and demanding concern of what is "best," and not just because a regulation or procedure exists. Those who would consider people as computers are hearing these outcries. The scientific community's acceptance in the past of such hazards as DDT, asbestos, radioactivity, vinyl chloride, aerosols, and food additives, to name a few, has prompted increased scrutiny into the ways and means of scientific judgment. And, in response to a study of hazards of DNA research, Dr. David Baltimore of the Massachusetts Institute of Technology, in speaking of the public's interest, said, "... it proves that even complex scientific issues can be understood by lay people who devote the necessary time and energy to the problem."

With acknowledgment that government is necessary, that regulations and directives have to be followed or changed peacefully for society to exist, when these man-made controls conflict with natural laws, there should be outcries. For if we legislate, mechanize, and socially control our lives against and away from Nature, we will not survive as free men and women, and our survival will be as mechanical computers subject to whomever or whatever controls our lives.

Referring to the "scientific community" without qualification is a practice of your authors, as well as other writers, and it is not the best usage of this term. It's like painting all scientists with the same brush, or putting all scientists in the same picture, which is unjust.

The government, industrial scientist falls in one category. He can only do what he is told to do, and can only follow programs set up and approved for him. He has to limit his research within his grant or programmed monies, and can only work with what the people develop within the organization. He is frowned upon, and his job security is threatened if he goes outside the organizational structure of expertise. The independent scientist, in another category, is the one who comes up with the new concepts, as he is not told what he may or may not do, and is not limited to the technical breakthroughs and developments of his government or corporate structure.

Throughout history, civilization has progressed from the work of the independent scientist. True, it is often that "... a govern-

ment or corporate structure must develop into application and use what the independent scientist has discovered" (*Industrial Research*, editorial, August 1975). The larger the structure, the more powerful the procedure, the more opportunities—and the practice—of going off in tangents and often spending millions, even billions, of dollars, countless hours of work, and the best productive years of intelligent and dedicated scientists in fruitless research, discovery, and application. In these instances, the results, although seemingly working in an expected area, are false, misleading, and not true to basic laws of that science which are overlooked in the bureaucratic program of an ideal, scheme, plan, system, or such.

In the United States, as in other countries, the independent scientist is overpowered by the bureaucratic control, rules, procedures, and self-centered protective agencies and organizations which, although apparently well meaning, tend to practice self-preservation against the initiative and progression of better ideas, means, and concepts outside their self-perpetuating structures. This is bureaucracy at its worst and, if continued in such form, as history dictates, initiates the fall of any great civilization.

We are depending more on the large corporate and research organizations for new ideas, systems, and products because they have large facilities, many experts, and great sums of money. The private or semi-private independent researcher, attempting to develop new ideas, systems, and products, is not given a fair and equal opportunity before the massive structure of these large and overpowering systems. History records that, as noted in Gray's "Elegy Written in a Country Churchyard," independent scientists with great discoveries to aid the good of humanity in their time have failed to break through this scientific iron curtain. In truth, civilizations have failed where the individual initiative of a country has been stifled in competition with the expressed individual initiative of another country.

Where large structures and systems become self-perpetuating in their own procedural existence, the basic fundamentals of any science, or of any concept, must be and are forgotten. In the mad rush the organization created becomes the law against the fundamental and basic laws of their existence and their meaning. The most difficult decision for any society has always been to look at such powerful structures of procedure and organization within that society, realize they are incorrect and misleading, and drasti-

cally, if required, make the changes necessary for the good of their people's existence. This is quite evident in science, government and corporate structures, the energy crisis, the food crisis, unemployment, the welfare system, and any other problem area of a large and complex society.

The most important need in the world today for all nations, for all people, is to return to the basic concepts on which free nations that foster individual initiative are founded. We need a total re-evaluation of existing technology to bring back into focus these basic concepts, to assist people instead of complicating their lives more and depriving them of their basic privileges. A new, overall perspective is required. For example, the search for a cure for cancer has now reached a point in proportion that the scientific community is turning from the search for a cure to the search for the basic cause of cancer. There are "more than 1,500 known or suspected cancer-causing chemicals now found in the American workplace and, in addition, another one in four workers encounters potentially dangerous pollutants ranging from noise and oil mist to known cancer-causing agents like asbestos and benzene" (National Institute of Occupational Safety and Health, October, 1977), and, as Labor Secretary Ray Marshall says, "we are trying to put out a forest fire one tree at a time." A comprehensive new policy proposed by the Labor Department would seek to control these known and suspected causes of cancer rather than searching for a cure to more than 100 known types of cancer.

II

EVOLUTION WITH NATURAL MAGNETISM

In this book we are interested in presenting selected and innovative ways to improve your health, healing, and happiness. It is generally accepted that the stresses of civilization are increasing to the detriment of our health, healing, and happiness. Part, if not a major preponderance, of our difficulties stems from the apparent conflict between the advancement of science in its relation to divine natural law. Here, we propose a new methodology in scientific method for studying the evolution of humanity and the conscious awareness and perception of our existence. We believe that by the concerted effort to advance the understanding of natural laws, specifically magnetism, more evidence for man's existence—his past and his future—will be determined for acceptance than from the present accepted theory of evolution. We give the following facts for this hypothesis:

1. Magnetism has existed on the earth at all times of recorded history of man's existence. Indications show when magnetism is present at hundreds of gauss energy levels as opposed to very low levels of energy, such as the earth's present approximate $\frac{1}{2}$ of one gauss, life forms existing are radically different. Evidence is substantial that in the earth's history wide shifts in the magnetic pole radiations, as well as the elimination of any measurable magnetism, erases existing life forms. It seems plausible that the presence of magnetism is necessary for maintaining life forms, as well as energy level differences affecting characteristics of biological systems.

2. As a result of space-age explorations, it is now known that magnetism is prevalent throughout our universe, more significantly in existence and motion than formerly imagined. An outstanding discovery was the pulses appearing as electromagnetic radiation from the planet Jupiter, ranging from X rays to visible light and radio waves, generated by fast-spinning magnetic fields flooding the solar system with radiation. And it is now suggested by Russian astronomers L. M. Ozernoy and V. V. Usov (*New Scientist*, 12

May 1977, p. 331) that quasars, distant celestial objects that resemble stars but emit unusually bright blue and ultraviolet light and powerful radio waves, may be giant magnets. Revolving on its axis, the sun emits electrified particles which shower the earth's atmosphere at speeds of 400 to 600 miles a second, and which are drawn to the magnetic poles, assisting the distribution of magnetism throughout the earth's environment. It is well known that electromagnetic radiation bombards our planet from outer space.

3. Through scientific method magnetism has been shown to exist in two separate energy forms, described as negative and positive, which are similar to negative and positive energy forms apparently existing in all biological systems on this earth.

4. It is known that external energy forms of magnetism will affect the internal energy forms of biological systems, when programmed correctly. Negative magnetism will arrest disease and infection, and positive magnetism will strengthen life forms. The increased understandings of magnetism published by the authors indicate that these separate and distinct natural energies of nature operate as if they have intelligence.

5. The predominant factor in man's existence and his being, historically, in the present and evidently in the future, is the development of man's brain and his nervous system, his conscious awareness and perception of his being and his environment. Magnetism, applied separately and distinctively, with known procedures and control factors, will increase the left and right hemisphere abilities of the brain, individually or collectively. Life processes can be speeded up or slowed down. Nervous system structures and performances can be dulled or stimulated. For the apparently healthy system or the ill, the biological system will indicate its own built-in rejection or acceptance of the separate and distinct natural energy forms of magnetism.

6. Energy is life in motion that can change form but, to our present knowledge, cannot be destroyed. Magnetism exists in all energy forms discovered by mankind and cannot be destroyed, although it can change its form or location.

The increased knowledge of magnetism and the new discoveries of the separate and distinct energies, consistently verified with scientific methods by independent researchers, show a vast, un-

imaginable scope of technology now in present use and planned for future generations resting on an unsound basis of natural law. This artificial programming away from Nature can only be described, if not changed and implemented, in accordance with natural law, as some form of mad genius that could inevitably lead civilization into an artificially mechanized society from man's natural creation and being. It is imperative that more emphasis be placed in man's evolution on the importance of magnetism in natural living.

Since a definition of natural would be that which is produced or existing in nature, not artificial or manufactured, no better example is more obvious than human beings—man, woman, and child. When we extend this concept to earth, fire, water, air, and lower animal species, acceptance is not difficult. As we have progressed in our discoveries of nature, multithousands of parts and segments, including elements, have been named and applied to our lives. Sciences have been founded and developed, and philosophies have been born, to determine the correlation of human beings with that which Nature has revealed, and yet in all our knowledge we are still as little children groping in the darkness for the truths of our existence and the ways and means of nature.

What is artificial and what is not? What is the natural life? The development of our societies has become so vast and complicated that answers to these questions confuse and befuddle. We have doubts that in our civilization a natural way of living could be obtained, or if it is really wise to even attempt such a style of living. It is clear, in our societies, that in living a totally natural life-style, as we may understand such a means to be, many obstacles we have constructed in civilization for our daily living interfere and, in fact, threaten our physical existence in society.

It has been said many times in many ways that the greatest thoughts, indeed, the greatest answers to our existence and meaning cannot be put in the symbols of words and language. Understanding can be more important than words and symbols.

Science professes to be truth—real, not artificial, described, written, conversed with the symbols of letters and speech civilization has devised. Why not symbols for understanding Nature? Can we say that symbols as revealed are not natural? We have a paradox incapable of adequate explanation, yet we have to accept symbols for our daily living. That does not mean we have to believe in

these symbols. We may know within ourselves a better understanding of our conscience, more conducive to health, healing, and happiness.

In the limited knowledge thus far revealed to man, the symbols used, the words and speech expressed, the communication of logic, theory, formulae, product, and a way of living, man still grasps like a little child in darkness looking for the light. Intuitive belief and scientific method, whether singular or together, we have accepted as producing advancements in societies. Are science and natural life incompatible? If we agree this is true, then are we not saying that science and God are separate areas that do not come together? How can a scientist, then, believe in God?

Science says that man evolved from the natural selection of species. Is this really a conflict with creativity of the species initiated and inspired by a divine power? Let us look at the accepted scientific view of man's evolutionary progress through natural selection.

Does this acceptance stand on its own analysis of scientific method? Or is science in this matter just another human activity standing for truth but perhaps more speculative than its counterpart, intuitive belief?

We are frankly instructed that man has come from the apes. No rationalization can ignore this basic science acceptance. We have, therefore, evolved from a simple life form in the seas to apelike creatures that have evolved to man; thus man was not created in God's image. This has all happened by mutation. And how does mutation occur? Remember, we are discussing scientific method accepted by the scientific community as a basis for advancing the importance of science to mankind.

Science says that mutations occur by "radioactivity in the environment, cosmic rays from space, or randomly by the organism itself. Accidentally useful mutations provide the working material for biological evolution, which to some extent is controlled by natural selection" (Carl Sagan, *The Dragons of Eden*, Random House, Inc., New York, 1977). This basis that is used for relating human evolution to reptilian and mammalian ancestors is not scientific method. Science knows little about radioactivity and cosmic rays and, in fact, has only taken these areas into serious consideration within the last thirty years. In fact, it was only in 1967 that pulsars were discovered in space, which stimulated

study over the entire range of the electromagnetic spectrum. And "random" and "accidental" do not make for scientific scrutiny since there must be consistency in the scientific method. In fact, such basis seems more theoretical and speculative than areas of ESP and psychic phenomena condemned by many scientists. Natural selection and the evolution of man from lower animal forms have not been scientifically proved by the scientist's own rules of measurement and are thus rightly entitled "theory of evolution" in the little more than 100 years of this theory. Studies in the evolution of species is certainly worthwhile, as are research findings on the mutations in the eggs and sperm cells that determine sexual reproduction. Yet where is the scientific method of cause and effect? Today, a reason for these biological changes within the biological system is different from a few years ago. Can we doubt a new hypothesis will not be offered tomorrow? We assume too much in our egotism to bring out the "truth" by accepting a basis not subject to consistency to further assume more "facts." If the basis is false, then the structure built upon that basis is incorrect, regardless of the symbols used to explain these new discoveries. And we can design new instruments that work on our new facts, but these instruments are later shown not to be designed to correctly determine what exists, works, or is within a part, according to still new discoveries.

We are constantly discovering that our scientific facts need new explanations, new insights. In actuality, we were not correct in our understanding of these facts. We build mathematical formulae and then experiment with products of energy explosions, for example, involving the basic energy of magnetism, yet not knowing that magnetism has two separate and distinct energies, and perhaps even more divisible entities. Still, the artificial monsters built do work for the purposes intended. That does not mean we understand the workings, including the detriments to biological life, especially when it is now clearly obvious, by scientific method, there was more to these "natural" energies than we realized.

More scientists, in ever-increasing numbers, are speaking out on their belief in Creation and in a divine intelligence that initiated and now directs our natural existence. It is a fallacy that scientists do not believe in God. A real scientist has no choice but to believe in a divine, supreme intelligence. Einstein, as have many great scientists, expressed this opinion. If you could take a poll of all scientists in the United States, it is the authors' view that a decided

majority would voice this opinion, and it would be voiced as belief, not just mere opinion. The belief would be shown on faith, and it would also be based on knowledge of our natural existence from accumulated facts of natural laws. "A growing body of opinion is rejecting Darwin's theory of evolution in favor of the creation theory," said Prof. Edgar Andrews, Department of Material Science, London University.

It is commonly supposed that Charles Darwin made the statement that man was descended from the apes, but Darwin only hinted at this in his *Origin of the Species* (1859). In his later book, *The Descent of Man* (1871), and from scientists such as Huxley, E. Haeckel, and E. Dubois, the Darwinian concept now generally embodies man descended from the apes, although some educators place more emphasis on "common origin" as opposed to "descent of man." Anthropologists like Richard Leakey, as well as scientists in the research laboratories, are finding more increasing difficulties with the Darwinian theory of evolution. Still, textbooks, science publications, and national magazines continue to depict, and often graphically, the evolution of ape species to the present-day man.

General views on man's difference from the ape is especially noted in his brain size, his skeletal and muscular facilities for walking, and in the structure of his jaws and teeth. Also, man possesses speech, has the ability to make complicated structures, and has more complex social organizations. More refined differences occur in metabolic makeup. The biochemistry makeup of man and ape are totally different. If man descended from the apes, perhaps his glandular fluids and those of the ape should be similar, and man then would not have to go to the monkey to remove serum to make the Salk vaccine for man.

You cannot have two species existing together at the same time when one supposedly has evolved from the other. The ape would not be here today if man evolved from the ape, unless man was an ape. The geological discoveries in Eastern Africa of ancient man similar to our own beings in the same fossil sites as ape species, from which we are supposed to have evolved, indicates we have no scientific accuracy of human evolution.

If scientists have nothing better to do than try to prove man came from the ape, then the colleges and universities that proliferate this doctrine as fact should be closed as a menace to society and as destroying man's inborn belief in God and what is

morally right and wrong. This is a principal reason why younger people today are turning from belief in the Creator, but, to be fair, we also have to say that this is a principal reason why increasing numbers of young people are rebelling and refusing to become slaves of an overburdened bureaucracy bordering on socialism. And socialism is the father of fascism and communism, where the state becomes the all-powerful ruler within a system that does not allow God to exist, in a diabolical plan to enslave the masses.

Why should man concern himself with his behavior on this earth if man comes from the apes and there is no God? The symbol—science—means knowledge, and there can be no science when the knowledge of that science is false. Intuitively, or by scientific method, the theory of evolution is only a theory, and a very bad theory. It's like the seven blind men describing an elephant. One man grabs the elephant's tail and says, "It is a long, snakelike creature"; the second man puts his arms around a leg of the elephant and says, "It is like a tree and has a great big trunk." The third man holds the trunk, saying, "It's a big snake moving up and down with a hole in it." The fourth man, holding an ear, says, "It's a great big leaf; I can feel it, and it's wide, big, and floppy." The fifth man, on the side of the elephant says, "No, you're all wrong, this is a big flexible wall that gives when I push in." The sixth man gets down on the ground, grabs hold of a hoof, saying, "No, it's a log standing on the ground, and I can even feel the roots." And, the seventh man reaches up, finds an eye, and says, "It's a big ball and it moves."

From its inception, Darwin's theory of evolution was too hastily accepted in science, ignoring existing studies scientifically disproving the theory. Actually, the theory of evolution was discussed in ancient Greece, and Lamarek (1744-1829) believed characteristics were transferred by heredity. What Darwin added to the theory was an explanation of natural selection. Sir Charles Lyell, British geologist, in 1858, one year before Darwin's *Origin of the Species*, found in a Brixham cave evidence of early man coinciding with his supposed ancestors, as had Sir Henry T. de la Beche, in 1832, reported in his *Geological Manual*. Darwin insisted as the basis of his theory "the principle of slow but steady change in one direction, from one age to another, from one aeon to another . . . favorable varieties would tend to be preserved, and unfavorable ones destroyed" (Immanuel Velikovsky, *Earth in Upheaval*, Doubleday,

1955). And if Professor Velikovsky's views are correct on catastrophes on the earth, including a gigantic catastrophe less than six thousand years ago, this would be the last dying of natural selection and survival of the fittest. The present scientific acceptance of man's presence on the Earth is considered 3.3 million to 3.8 million years with possibility arguments as long as 250 million years. Darwin admitted he could not explain the disappearance of horses in pre-Columbian America, nor the extinction of the mammoth, an animal with every favorable condition for propagation. Science has "given up" on Darwin's theory of evolution, although some diehard scientists cling to their indoctrination: "Our ultimate explanation of evolutionary change may well come from studies of correlated environmental and hereditary changes" (*Van Nostrand's Scientific Encyclopedia*, fourth edition, 1968).

That characteristics of biological life can be transferred genetically from generation to generation is not disputed. Although genetics is still a young scientific discipline (Abbe Gregor Mendel, 1822-1884), discoveries in this area of understanding have been rapid and increasing within the last few years. The prevalent mystery, as well as concern, is the influence of the environment on man and biological species. It has become more apparent that man, in the use of his own free will, can upset the radiological and environmental influences, mutating his evolution from a natural course. This belief has become a clear and present danger. It is known that chemicals and drugs can horribly mutate human beings, that radiation overdoses can kill and maim. It is not given to accepted scientific knowledge how environmental radiations function in causing genetic changes, nor if such effects can be witnessed in one or two generations, a period of time for personal observation. In submitting our hypothesis on the effects of natural magnetism on biological systems in evolution, we are not suggesting a final solution since we realize, although our research has gone further into this field of science than perhaps other scientists', that much still has to be understood about natural magnetism.

In our laboratories we have had three-foot chickens that became meat eaters and had to be destroyed, rats that acted as if they were cats, cats that behaved as rats, and dangerous snakes that became as harmless as butterflies. We induced these changes by carefully selected fields of magnetism in our research knowledge of the separate and distinct natural energies of magnetism. We have

applied our findings on the natural separate energies of magnetism into as many areas of science as time and our energy permit in our research, and, as our own worst critics, we find no understandable application that does not follow a balance of natural law, unless man himself uses his knowledge to upset that balance. There are dangers in our hypothesis, as in all discoveries of natural laws, since man has not learned to live peacefully with his fellowman, enjoying the fruits of his discoveries. We submit our hypothesis in the spirit of science with the belief that the secrets of Nature belong to God, but that which is revealed belongs to all. We look to God's providence that the increased interest and development of the separate and distinct natural energies of magnetism will be utilized for peace, order, and harmony, and not, through man's selfishness and ignorance, hasten his extinction on this earth in his violation of natural laws.

In our belief that science has "given up" on Darwin's theory of evolution, it is encouraging to discover that the prestigious and authoritative *Van Nostrand's Scientific Encyclopedia* (fifth edition, 1976) does not mention Darwin or his book, *Origin of the Species*, under the subsection of Evolution. The earlier edition, published in 1968, not only mentioned Darwin and the book that established his theory, but most of the descriptive material in explaining evolution was presented as backup material supporting the theory. Instead, the new edition is quite determined to ignore Darwin. There is, instead, discussion on the age of the earth in evolution, the importance of amino acids and fossils in evolution, and this section concludes with the following statement on page 989, "The principal, reasonably well understood means for causing genetic changes are mutants. Mutations are genetic changes which occur suddenly and are thereafter heritable. Mutations arise through three general mechanisms: (1) chemical modification of performed DNA, such as breakage and aberrant reunion of molecules or the changes elicited by ultraviolet light, for example; (2) errors in incorporation of the purine and pyrimidine basis, or additions and subtractions of bases, during DNA replication; and (3) unequal exchange between two identical or similar DNA molecules ('unequal crossing over') during recombination. These chemical changes normally occur with low frequency (spontaneous mutations), but the frequency can be increased by means of various chemical and physical treatments (induced mutations). Even when so induced, the frequency of

bacterial mutants for a particular trait, for example, is low, e.g., one mutant in 10^4 to 10^{10} bacteria. Thus, any biological evolutionary alterations brought about by the mechanisms of mutation would appear to represent a very slow pathway." This statement should be carefully analyzed in word usage.

Reference to "errors in" and "unequal exchange" and "would appear to" are used in relation to existing accepted scientific maxims and do not consider the findings of magnetism's separate energies upon cells and molecules that perform with mathematical exactness when properly utilized. Our previous publications, *Magnetism and Its Effects on the Living System* (Exposition Press, 1974) and *The Magnetic Effect* (Exposition Press, 1975), and U.S. Patent No. 3,947,533 and U.S. Patent No. 4,020,590 show the findings that are results from the basic genetic changes in cells and molecules. Further evidence will be shown in patent pending entitled *Method of Treating Abnormal Cardiovascular Conditions Using Unipolar Magnetic Fields* and patent pending entitled *Method of Using Magnetic Fields to Conduct a Screening Diagnostic Examination*. We additionally submit at this time several interesting characteristics:

1. Although each kind of gene is different from every other gene in its DNA sequence, the primary genetic material for all living systems, we find a remarkable similarity in the helical (spiral) double-stranded structure of DNA to the joining of negative and positive magnetism in the design of a figure eight.

2. Considering the above significance, we point out that the forming of the zygote cells in the human embryo is also in the design of the figure eight, similar to the joining of the basic natural energies of magnetism.

3. As the DNA contains the basic genetic material to position specific amino acids into sequences for chemical interaction and development (amino acids are the building blocks of all biological life), we notice the relation of amino acids in their motion of energy relative to negative and positive natural magnetism. Amino acids spin to the left during life and after death spin to the right. Negative magnetic energy spins to the left and will assist amino acids in offsetting disease and increasing alkalines; whereas positive natural magnetism spins to the right, assisting acidity. In this publication, as in previous publications, we have insisted that our

findings show the more important energy in sustaining life forms is negative energy, which shows its energy in matter by counterclockwise spin similar to negative natural magnetism.

4. "Changes elicited by ultraviolet light" are in the known spectrum of electromagnetic energies, as are infrared or heat rays, solar rays, X rays, gamma rays, and cosmic rays, all showing significance in the alteration of genetic structures. We further submit that limitation of the electromagnetic spectrum does not align with other accepted scientific maxims, including the primary maxim that atoms act as if they were magnets. If this maxim is correct, and we believe more credence is supported by a proper understanding of magnetism's separate and distinct natural energies, how can any form of energy composed of parts we call atoms not be electromagnetic?

5. That electricity and magnetism exist together we do not dispute. We do dispute, and believe our research findings indicate, that magnetic flux, or fields, is not secondary to electricity. Indeed, magnetism is a basic energy, in and of itself divisible into entities, and will, we believe, be verified as more basic to man's existence and being than the energy of electricity.

6. Mutations can be favorable or unfavorable. They can be induced by chemicals, high or low temperatures, radiation (adequately exemplified by the atomic bomb), and cosmic radiation. The importance of cosmic rays in our "environment" has played a significant role in the past history of animal evolution and no doubt to human evolution. In the explosion that is death to a distant star, high energy particles of cosmic rays are thrown billions of miles into space. Cosmic rays, similar to radioactivity, can disrupt the protective layers around the earth, allowing more ultraviolet rays from the sun. This could affect genetic changes and cause mutations. Cosmic rays entering the atmosphere give rise to various interactions. One example is the formation of radiocarbon, found in all living matter. Radiocarbon combines with oxygen to form carbon dioxide, vegetable matter absorbs carbon dioxide containing radiocarbons, animals absorb radiocarbons. When plants and animals—living matter—die, the radiocarbon reverts to nitrogen—a continual cycle of peace and order in the harmony of Nature where the seemingly basic energy is the two separate and distinct natural energies of magnetism.

To be more specific, cell mutation occurs when the negative voltage drops on a healthy cell and the cell mutates, or proliferates, out of control. Cancer cells are examples of mutants. When the negative magnetic energy of a healthy cell drops on the cell surface and is not reinforced by nature's radiation and environmental interactions, or by the living system's own balance of natural energies, the surface bonding of the weak cell allows mobility to invade other normal cells. Our research with magnetism on normal and abnormal cell interactions, previously published, we find to be similar to the published work of Dr. Clarence D. Cone, Jr., wherein Dr. Cone's research was limited to the electrical studies of cell division, *Control of Cell Division by the Electrical Voltage of the Surface Membrane* (American Cancer Society, San Antonio, Texas, March, 1970).

Recently there has been some discussion in the scientific community concerning gravity as the maker of planets. This carries the implication that gravity is more basic to our understanding the universe than understanding magnetism. These discussions about gravity do not tell us what gravity is, nor from what source it comes. We refer the proponents of gravity versus magnetism to the following response based on laws of physics verified independently from our research and, in fact, in world publication:

1. The North pole energy of magnetism draws and attracts, as a volcano-shaped funnel, whether the materials attracted are fluids, gases, particles, or as large as oceans and, it would seem, following this law of physics, to still larger masses.

2. Anything having a counterclockwise vortex spin is going to attract to it, whether magnet or other source of energy spin in nature. This will apply to particles in space, and, as particles are collected the mass is increased.

3. Mass is negative and attracts other positive charges, and after billions of years a planet will be formed.

4. As a planet comes into being an energy field is created around this planet, such as earth, and the planet becomes as a magnet, as is earth.

5. The size of the planet equals the square of the mass, which is equal to the gravity.

6. As the mass attracts continually, the energy field created

around the mass, protective layers in forms of energy are also created. We call these protective layers on earth by different names, such as ionosphere, layer A, B, and so on. Each protective layer is separated in distance one from the other, all created and resulting from the magnetism of the mass.

7. As protective levels develop, this allows life to function on the mass, such as on earth. On a mass such as the moon, life as we know it cannot function due to the weak magnetism in that mass and its lack of protective shielding. The moon is often referred to as a dead planet. If the moon could develop protective shielding by increasing its magnetism, then life could flourish on the moon.

8. Once protective shielding is developed around a mass, this allows clouds and atmospheric gases to form. Once you have clouds you attract oxygen and hydrogen to make water available in developing life systems. We would conclude that gravity is dependent on magnetism.

The difficulty in properly assessing the importance of magnetism to genetic and environmental evolution still is apparent in the reluctance of the scientific community to understand that magnetism is two separate and distinct energies. Without this understanding, and proper application of the separate energy desired for the prescribed function, there can be no repetition of results required for verification. This is evident in the classic modern works in magnetism of Dr. A. S. Presman, *Electromagnetic Fields and Life* (Plenum Press, N.Y., 1970), and Prof. Madeleine F. Barnothy, *Biological Effects of Magnetic Fields Vol. 2* (Plenum Press, 1969). Although these research publications, as many publications on magnetism thereafter as well as authors before Presman and Barnothy, showed to the scrutinizing scientist that magnetism does affect living systems, many areas of the scientific community remain ignorant or refuse to believe this important concept. With the discovery of the separate energies of magnetism, where experiments can now be scientifically reproduced with mathematical exactness utilizing the required separate energy, magnetism will take its proper place in the structure of matter's basic energies. The hypothesis in this chapter is submitted in this hopeful acceleration for the better understanding of man—his genetic and environmental evolution.

III THE NATURE OF THE UNIVERSE

In Los Alamos, New Mexico; at Fermi's \$243 million labs of Illinois; at Cern in Switzerland; at the European Organization for Nuclear Research; and at Argonne National Laboratories, to name a few, where high energy research into the nature of the universe is conducted, we find such terms as "weak interaction," "strong interaction," "quarks," "the gauge theory," and so on. These measurements are studied after protons are raced through extensive paths of magnets to perform programmed tests for studies, photographing, and charting. Question—without understanding of the separate natural energies of magnetism, applied to the construction of these expensive theoretical installations, how can any findings from such installations be any natural indicator of our natural universe? Yes, we are herein stating for the record that findings from these installations are leading away from nature's operations. They are too theoretical for theory and science. When the basis is incorrect, the conclusions are incorrect, regardless of the order that is correlated from the misleading findings. We submit that "looking for forces that should be there when otherwise it does not make sense" and giving names to confusion resulting from incorrect scientific use of basic energy do not give a correct understanding of nature. Exploding bigger and greater bombs, doing with particles of Nature what has not been done before, does not advance man's understanding of Nature when the basis of that work is scientifically incorrect. If this is an indictment of a particular area of science, then let it be, as such scientists may deserve accusations. To apply the understanding of the universe, this wonderful creation of order, to misleading conceptions and theories is not enough for these scientists. They go further in theorizing human behavior and existence on these misconceptions. A clear and present danger to the nature of man, we feel, are scientists of this caliber who say they "have created." It is quite common to hear such comments as "created in the laboratory," and almost as misleading are those scientists who claim "man is basically an electrical animal." Electricity is not more basic than

magnetism, nor does a scientist create, since a scientist can only discover that which already exists. Such scientists are helping to destroy man's understanding of his nature by improper findings and adaptations from their artificial playthings.

Gravity, electricity, the weak force, the strong force, and such, cannot be scientifically examined for more understanding of Nature and the universe without the acceptance and adoption of the separate natural energy of magnetism. Subatomic physics—the proton, electron, neutron, smaller atomic particles—is incapable of furthering studies for clearer understanding without natural magnetism's separate energies. On and on go these experts, spending billions of dollars, and "things" just don't work right, so they have to "create" new terms and look for new particles to explain their confusion—and they do. Now, we have another name that was "created" in the expensive instrumentation of the Sanford Linear Accelerator and at Brookhaven Institute where protons were accelerated through, yes, you are correct, magnets, to then collide with other particles programmed. And we have a new form of matter named "charm." It is now the quark family, the charm family, the heavy charm family, the charm quark family, and so on—all misleading without instrumentation utilizing the separate energies of magnetism and the effects of these energies on particle acceleration findings. And don't forget anti-charm and naked charm. We can say it and not lose our jobs—baloney!

These particles are not accelerated only through magnets, without considering the effects of the separate magnetic fields on these particles, but bubble chambers with magnets, electromagnets, super-cooled magnets, on and on, using magnetism in these experiments without properly accounting for the separate energy effects on any particles or matter in these experiments.

In 1976, amid 20,000 confused findings, examples were determined for science to accept charm particles. Fermi Labs offered the first path record of charm. Eureka! What do we really have when the basis is incorrect? Now these "high energy physicists," a self-describing, optimistic title, look for charm antiproton. Where will it all lead? You can be sure it will go on and on, further confusing man's understanding of the universe, unless there can be a reevaluation of magnetism in its natural parts in its relation to these findings. But this will probably not occur in the near future since such reevaluation would most likely determine that the con-

struction of these expensive theoretical installations are not themselves correct.

"Members of the electron family are different quarks that make a transition to electrons, sixteen entities in combination," and what will be next? As one respected energy physicist, Prof. Murray Gell-Mann, said, "The picture appears complicated because we may be looking at it in the wrong way." Yes, yes, yes, thank you, Professor Gell-Mann.

Then, we have one thousand powerful magnets in miles of particle acceleration in the Fermi Labs at Batavia, Illinois, with magnets, electromagnets, super-cooled magnets, and so on. Human beings test what they think they know—theoretical and experimental. "The Fermi accelerator was completed in 1972 at a cost of 243 million [dollars] and sprawls across 6,800 acres of prairie" (*Fortune Magazine*, July, 1977, p. 64). If a magnet fails in this giant accelerator the magnet is replaced. Why did the magnet fail? Why did the separate energies of the magnet fail the operation? If we must waste millions of dollars on such instrumentation, let's at least go to the heart of the matter. And further, to quote Professor Freyman, "Nature may have a different way of doing things. With all this talk about new theories there is not much understanding. These weak interaction connections with other actions I still cannot believe. It may be more youthful enthusiasm than good physics." Yes, Professor Freyman, we certainly would agree, and we would also add there is an element, pardon us, of self-delusion that human beings, as scientists are, will accept their basis of the science as correct when they have accepted that prior results are incorrect.

Magnetism has been relegated to an inferior position in relation to electricity and gravity. As long as this concept exists in the scientific community, there will be only theories on theories, confusion on confusion. Even the black hole concept of decaying stars finds an understanding by the application of magnetism's separate, distinct energies, expansion and compression, heat and cold, clockwise and counterclockwise vortex spins, and so on. So, you scientists out there, where is your courage to reconsider basic magnetism?

A unifying force in the universe is now believed to be answered by the black hole concept. Einstein looked for many years for this unifying concept and could not find it. We submit that whatever basis is given to the black hole concept, particles eliminating one

another, particles escaping from black holes, smaller, hotter and exploding particles, little black holes, bigger black holes, the power of millions of H-bombs—whatever theories form this present study, without the proper understanding and adoption of the separate energies of nature's own magnetism, this is proceeding further from understanding Nature, not closer to our meaning and our being.

This important particle we call a proton, this symbol to describe the irreducible unit of light, is believed to have its secrets revealed only by constructing large multimillion dollar structures to accelerate protons near the speed of light, hurling them at targets, the collisions giving still more particles. Can these installations withstand their failure to advance man's knowledge of the nature of the universe when an independent scientist in his own self-supporting laboratory, without the aid of a giant particle accelerator, discovers the nature of the proton, opposing and alike forces in matter?

When Albert Roy Davis, in 1936, discovered that magnetism was not homogeneous but two separate and distinct energies, Dr. Yerkes of the Yerkes Laboratory, then at Orange Park, Florida, told the young scientist that "it may take your lifetime to convince the scientific world of your discovery." Neither Dr. Yerkes nor Albert Roy Davis could, in 1936, foresee the vast applications and understandings to man and his universe that would result from this lifetime of research and development. The same laws of magnetism discovered by Albert Roy Davis apply to the proton, the electron, the atom, as a magnet, touching upon all fields of human knowledge. Still, it is not unusual to have information available to the scientific community that is not well distributed or considered in relation to a specific problem. The correlation of available scientific information is a serious problem.

Science News (vol. 112, September 24, 1977, p. 196) published, as *Science News of the Week*, a "discovery" entitled Proton Spin Surprise. Naturally, and we believe such a word aptly applies here, the spin of protons was not a surprise to many thousands of interested persons and scientists who have read the book, *Magnetism and Its Effects on the Living System* (Exposition Press, Hicksville, New York), first published in 1974. A specific drawing on page 93 of this publication shows the figure eight, unlike energies joining, and sufficient explanation is given for the differences when the energies are alike. Yes, the quark theory, and all its ramifications, including mathematical formulae, is in serious trouble, and further research into the study of spin with natural energies will hasten

its doom. It is certainly one of the biggest boondoggles in scientific research ever recorded to have expensive particle accelerator installations throughout the scientific world which do not account for the separate magnetic energies and the spin of these energies in their installations. Consider all the computers that have been misprogrammed. Surely, it will take years to unscramble the mess that really came about by again practicing that only the big and biggest procedure of a bureaucratic system of self-perpetuity could have any decent answers of mankind. Here we quote the *Science News* article as correctly seeing the scientific dilemma: "The quark model is, of course, the *beau ideal* of current particle theory. It explains not only the proton but nearly all of the more than 100 known particles. Quark theorists have been quite clever in adjusting the theory to cover a number of recent discoveries, some expected, some unexpected. There are theorists who see the quark theory in serious trouble over these proton spin results, because it would have to be the spins of the quarks [particles] that were responsible, and quark spins have not taken an important place in the theory before now."

The handwriting has been on the wall for some time, further illustrated by A. C. Tam and W. Happer. In their *Physical Review Letters* (vol. 38, p. 278), they describe two Columbia University physicists' discovery that "light beams, that spontaneously split into two, repel and attract one another." We trust the reader will understand that whatever animal we are discussing, a beam of light, a proton, an atom, we are describing the same experience. Should we not point out that we have, for over twenty-five years, advised the scientific community of this phenomena? This is a matter of science, not of ego.

A proton spins to the right and comes up to another proton; if the spins are alike, they bounce off; unlike spins of two protons pass through one another as in a figure eight. They will then combine and pass through one another without opposition. As they are both positive, it would be believed they would repel each other. But if one has polarized clockwise spin, it has taken on a decided positive charge, whereas the other proton with a counter clockwise spin has taken on a slightly negative charge—on the outside of the proton. The spin is what governs the action of any particle in matter and is the correct analysis in identifying the positive or negative function of natural energies.

When you have negative voltage and a lesser negative voltage,

the weaker negative voltage becomes positive to the higher negative voltage. Electricity is a flowing charge of energy as opposed to magnetism, which is a field of energy. You cannot light a lightbulb with magnetism; it takes a charged flow of energy—yet magnetism is present in that lightbulb. Magnetism will flow around a copper wire; electricity will flow around and through the wire. Magnetism has a spin effect; electricity has a flow effect, and as all matter is in motion, characterized by spin, here is another reason why magnetism is the father of electricity—not the child, which is generally accepted in physics.

Further, in considering the spin of energies—in magnetism the positive clockwise energy expands, and the negative counterclockwise energy contracts, constantly occurring in all matter everywhere—what does this do to the theorists of the expanding or contracting universe? The reasonable assumption would be that these theorists are both incorrect in that the universe is expanding and contracting simultaneously.

Generally, the scientific community has completely ignored the spin effect of matter, not only in protons, atoms, and quarks, but also in regard to magnetic fields. Another example would be the Zeeman Effect, incorporated into spectrophotometers, "developed by the Lawrence Berkley Laboratory, and among present applications, used by Japanese fishermen, the Environmental Protection Agency, and the U.S. Army Corps of Engineers" (*Science*, 7 October 1977, p. 39). Magnetism is considered only to polarize, or condense, a beam of light. This is like a child playing with a magnet, and applies outside particle acceleration facilities, to name a few, in all magnetic analyzing equipment, magnetic resonance analysis, spectrographic equipment, the electron microscope, the cyclotron, the entire field of physics and related sciences, where the supreme command of science has ignored the basic laws, but still has the time to chastize, criticize, and ridicule anyone who would attempt to show the importance of spin in understanding the nature of the universe.

Do these recent verifications in the importance of spin in matter have any effect on the super-structures built that ignore spin in expensive and time-consuming playgames with natural energies? Look at the record. The Congress of the United States has approved the construction on Long Island of a 400 billion electron volt accelerator for high energy research. The accelerator will be con-

structed at the Brookhaven National Laboratory at an initial cost of \$183 million. Construction will continue for five years, starting in October 1978. An underground cyclotron, one-third of a mile in diameter, would fire protons around a ring, guided by superconducting magnets. The protons, fired in opposite directions, would collide in a bombardment center, permitting scientists to measure the properties of subatomic particles at "a level never before achieved" (*New York Times*, September 30, 1977). Dr. Ronald Rar, associate director for high energy physics at Brookhaven, is quoted as saying, "This means that the high-energy physics program at Brookhaven, which has been extremely successful over the last twenty years, will be able to continue to produce exciting results. The idea is to understand the relationship among the forces of physics in a unified way so that we can understand them as a single unit rather than as separate forces. Einstein tried for twenty years to understand how to unify the forces of physics and was unable to arrive at a satisfactory explanation." Does the reader, at this point, need any suggestion as to the merits of any results correlated and mathematized from this enormous undertaking in the extension of the quark theory, the same basic construction of this enormous structure, using basic laws, as well as experimental results, that have been scientifically verified as misleading?

It will be a race to see which country spends the most money and time searching for new quarks. Will the United States make new quarks first? Will Europe make new quarks first? In the Soviet Union plans are underway for a machine several times more powerful than the upgraded Fermi Lab doubler. Peking has discussed a construction program of its own with the director-general of GERN. At the German particle physics laboratory DESY, in Hamburg, hope is high that Europe will succeed against the American rivals. The language invented by these high energy researchers into the nature of the universe reads like a fairytale, quoting from *New Scientist* (8 September 1977, p. 572), "DESY's electron annihilator, Doris, can be stretched to reach the new 10GeV state, whereas its American rival, Spear, cannot . . . the only effective way to discover the new particle as they were to study the equivalent J/psi and charm before it . . . push Doris to 8.6 GeV . . . use two of the accelerating cavities being built for Petra—Doris' successor . . . the large magnetic detector Pluto. . . ." Amen!

IV NEGATIVE IONS

Life processes—your life and your health are affected by air ions, too small to be visible without special equipment. You have read and heard on your radio or television about the use, application, and values of negative ions. Exactly what is it they do? Why are they so important to your health? What can you do to improve their benefit to you?

Air ions are electrically charged particles. Very little was known about these charged particles in the air we breathe, and which man can now make simply and effectively, until the end of the nineteenth century. The discovery of their existence, working independently, was made by Elster and Geitel of Germany and Thomson in England. Soon after the discovery was announced, biologists, researchers, and professional doctors in different areas of the medical profession started to research and explore the direct possibility that air ions may actually affect or influence biological and physiological activity and life processes. The greater part of the scientific community affirmed this belief in their research.

With this historical background of scientific acceptance, we find today an indifference to the value of air ions. Many hundreds of science papers written by dedicated researchers around the world support the value, biologically and medically, of air ions and their beneficial effect on mankind, principally, air ions of negative electrical charge (negative air ions). Not unlike many other natural sciences, today's scientific community chooses to demand more and more evidence of any good that can come from anything that is natural, without drugs, chemicals, and mechanics. This, we have found, is the general scientific response to our work of many years in biomagnetics with the effects of the natural energies of magnetism on living systems, although patents have been approved and independently verified, and much of our published material not patented is used quietly by researchers and practicing professionals.

An excellent scientific paper on the effects of air ions was written by Drs. Albert Paul Kreuger and Eddie James Reed,

"Biological Impact of Small Ions" (*Science*, vol. 193, 24 September 1976, pp. 1209-1213). Dr. Kreuger is Emeritus Professor of Bacteriology, Emeritus Lecturer in Medicine, and Research Biometeorologist at the Naval Biosciences School of Public Health, University of California, Berkeley. Dr. Reed is Research Associate at the School of Public Health, University of California, Berkeley. Their article stresses the importance of air ions in natural healing and health.

Natural healing is an art and an important science gaining respect and acceptance within many professions, including the medical profession. It is no longer just a theory, but a factual science, and is demanding continued research and attention.

Rather than assess the validity of air ions to you, we will, instead, present the facts that are the results of practical laboratory and life research which, in our opinion, prove the effects on your health and welfare.

Do air ions affect microorganisms? Yes, they do. As example, air ions affect, and alter, the serotonin metabolism of mice, small creatures that have lungs, a heart, and most of their organs similar to man. What is the importance of altering serotonin? It is a powerful neurohormone which, when altered, affects the nervous system of life forms and, thereby, the entire biological system. Any changes in the air you breathe, the atmosphere, the weather, alter the value and amounts of these electrically charged particles which affect your health and welfare. Atmospheric imbalance of air ions generally proceeds by 24 to 48 hours, more or less, dry winds and high temperatures, known by names such as "Sharav" in the Near East and "Santa Ana Winds" in California. American Indians called these dangerous winds "devil winds" or "winds of madness." As these winds approach, and during their fervor, there is a buildup of positive electrically charged ions (positive ions). This condition generally occurs in any area of the world before and during a storm or high winds.

Positive air ions act to stimulate and cause a rise in the emotions and general feelings of all biological systems, man and lower animals alike. Unrest, uncertainty, confusion, and anger can occur during the prevalence of positive air ions in the atmosphere around you. You are often affected, cannot understand your differences, and, even with understanding, cannot change the altering of your conduct as there is also decreased oxygen intake to your system.

Negative air ions will give you just the opposite feelings. You

will feel better and think better with a rested, pleasant state of mind. Your anger will be slow to rise. Problems will not seem as pressing to you. In this more congenial environment you have a restful happiness in mind and body. Where the atmosphere is very low in air ions, positive or negative, the effect upon you is similar to a heavy concentration of positive air ions. It has been found in actual controlled laboratory experiments that the lack of ions affects seriously all living systems.

The difference in having a concentration of positive ions against little or no ions is having too much energy of a stimulating effect to a situation where energy levels you need for a normal life environmental atmosphere have disappeared or have been reduced to a level harmful to all forms of biological life.

Basic and accepted understandings of air ions can be described as follows: The body with the lowest ionization potential, whatever body it may be, always results in that body's having a positive potential; whereas any body having a high ionization potential acts to have a negative air ion potential.

Ionization of air is not the same as pollutants. This is all forms of toxic and nontoxic gases that cars, trucks, trains, airplanes, gas motors, smoke, and chemical fumes produce. The most dangerous of these toxins are carbon monoxide, nitrogen oxide, and sulphur oxides. Under normal and natural conditions of our present environment, the air we breathe, about 75 percent nitrogen and 25 percent oxygen, contains various amounts of these pollutants with varying amounts of ionized air. This is called secondary pollution—toxins and gases joining with ionization of air-charged ions and the nitrogen and oxygen of our air, producing results harmful to our health. Positive ions have an attachment to dust particles more so than negative ions, which could explain why the positive ion concentration is higher in cities and congested areas, as pollution will also destroy negative ions.

When you wear shoes, they act to insulate you from the earth. Placing you aboveground, you can build up a high electrostatic charge, making you more susceptible to atmospheric effects. You take on a positive electrical charge in relation to the earth, which is negative. You may have noticed that dogs and cats, when they feel tired or sickly, prostrate themselves on the ground, pressing their bodies firmly against the earth. This allows them to receive soothing negative energies, to remove positive energy of a low

energy body or high positive concentration. The human being is no different in this effect. A number of Indian tribes, explorers, and other men in history knew that close contact to the earth gave one a better feeling. Bismarck, emperor of Germany, used to bear-hug a tree to soothe his nerves. Gardening, farming, and working outdoors have as much significance to our natural inborn knowledge of closeness to the earth as acquiring fresh air and sun. How often have many of you, from rest periods in military service, athletics, or any strenuous work, relaxed firmly on the earth and afterwards felt refreshed, with new vigor and interest in what you had to accomplish? And you certainly have heard of, and even medical doctors prescribe, the benefits of kicking off the shoes and walking on the earth.

Nature is the great teacher if we understand a little about what Nature holds for all of us. We could feel better, live better, and think clearer. Huckleberry Finn and Tom Sawyer really had the answer, so try it occasionally, and you will find this benefit of Nature's healing for your health.

Clean, fresh air in the countryside is a balance of ions that must exist if we are to feel good and be healthy. Negative ions, existing many thousands of times higher in clean, fresh air, are your friendly ally. The city, a closed office, a home, a store, or an apartment is like a closed box with very little negative ions present. People living in or near cities, or close to downwinds carrying polluted air, wonder why their plants die, look so poorly, and fail to flower. The answer is in the fact that the atmosphere has a poor ion balance of negative or positive ions, the positive ion concentration is excessive, or there has been the combining of ionization with pollutants. Opening a window for fresh air doesn't help when the air outside is not clean and fresh. Moving from your area is not always possible or practical.

Humidity and moisture content of air is difficult on persons with respiratory problems due to the lack of oxygen in the air, though depletion of negative ions may be more significant in causing these respiratory problems. Centrally heated and air-conditioned offices and apartments also eliminate healthy negative ions, giving a preponderance of positive ion effect. In an office or apartment complex it is not unusual to find variances in offices and apartments where you would just feel better by having a location with more negative ions available because of the duct and ventilation system. Yet

little consideration is given in planning and construction of these buildings to aid the existence of negative ions. There are still some means you can employ to improve your atmosphere by your individual self-help.

You can place a large pan of water in every room, even under the bed. The water will collect air impurities from the room; the air will be more fresh. If you place a pan of water in a room with flowers you will see an improvement in the growth of your plants. If you are a heavy smoker, or live with a heavy smoker, a wide-surface pan of water in the room will absorb smoke odors overnight. Refill the pans each day. Overnight, or in a few hours, you will be surprised at the difference. Leaving your television set on, with the volume down if you are not listening, will help to collect air impurities on the screen. You may have noticed that smoke near a television will be attracted to the screen. You would be surprised by the amount of dirt you can daily wipe from your television screen when it has been in use. The term "proton" defines a quantum of light energy analogous to the electron. The more protons produced in your television set, the more positive ions, as negative ions produce very little, if any, light. Thus the darker your TV screen, the more negative ions; whereas, the lighter your TV screen, the more positive ions produced. The same occurrence applies to color television as well as black-and-white emissions. Reliable research studies conclude you should not watch your television too closely. An electrostatic generator, such as the Van de Graaff type, is a long rod with a revolving metal ball that collects negative ions when in operation. The process involved can be programmed to produce enough energy to smash an atom. An ordinary plastic or rubber comb can be used as an oversimplification of a Van de Graaff generator. Combing your hair with a plastic or rubber comb will produce negative ions very healthy for you. This simple act of combing produces a tremendous flood of negative ions, which could last fifteen minutes to one hour, depending on the amount of moisture in the air. The more moisture in the air, the less time the negative ions exist. So, if you are not up to your usual energy, and you feel somewhat depressed, combing your hair can improve your negative ion environment.

Mercury-vapor lamps, commonly used for street lighting, produce a very high concentration of positive ions. There are X ray, gamma, and other radiations, some due to mixture of mercury with

chemicals in these lamps, all detrimental to biological systems. Plants growing near these lights grow at night with very little flowering. The plants receive no rest period, necessary for all living systems in sustaining life functions. High ultraviolet radiation can also be emitted by these lamps, which is very harmful to the eyes of living systems.

While some men and women of the scientific community have contributed much to the science of fresh air, others have fought to prevent the study and development of pure air devices that could aid the average homeowner. During the 1950s, this natural science suffered a severe setback when a number of businessmen tried a big-dollar income selling air-ion generators. Exaggerated claims for better health and curing diseases were advertised, and the FDA halted the advertising and manufacture to the public. The researchers, scientists who were honest and devoted to proving the effectiveness of negative ions for better health, medical use, and application, suffered greatly from these exaggerated claims. It was also during this period that Dr. Fishbine, president of the AMA, condemned any form of magnetic field as useless and unimportant. Again, the FDA cracked the whip, and all such instruments were banned.

Then, colored lights were found by researchers to have beneficial effects on plants, and to some extent on man. Big business, with exaggerated claims, took charge, and the FDA prohibited the sale of all instruments generating colored lights.

Now all this has changed, as scientific proof is becoming stronger for the serious use and application of ion generators, magnetic fields, and light generators.

We hope to show the extent of these values, as well as others, now under serious research by men and women of the scientific community.

Science is no exception to commercial exploitation by large business interests attempting to make money on worthless claims. Overshadowing, often destroying, they hinder the honest work of dedicated researchers who do not exaggerate their findings. Also, today, as in the past, there are a number of scientists who will not overlook the opportunity to announce prematurely a product without sufficient independent testing, not properly controlled, or in the hands of the interested business entities. You see evidence of this today in the drug and pharmaceutical industries, with unsafe

products on the market because of poor quality controls and insufficient testing on human cases. Due to public clamor, such testing procedures are now undergoing an overhaul, as well as procedures of the FDA and HEW agencies in allowing these products on the market.

It would be impossible to mention the research of most, or all, in their contributions to the science of air and atmosphere. Scientists of many countries are now, and have been, involved in this line of research. For example, in Russia, the research of the well-known scientist Tochijevski and his associates of the Central Laboratory for the Study of Aeroionification, Moscow, where after long and carefully controlled research experiments, it was discovered that negative ions will arrest forms of bacteria. Virus, as micrococcus pyogenes and staphylococcus, grown in special culture dishes, reacted to arrest and control by negative air ions, but not to other forms of air such as positive air ions. For other experiments concluding these findings on bacterium, a good reference is Cergeys *Manual of Determinative Bacteriology* (1974 edition).

Here, in our research laboratory, we have confirmed the beneficial value of negative ions as found by a great number of scientists. Air ions do affect your health and happiness. Clean air, negative ion air, unpolluted air, is one of man's greatest needs for good and normal health. Negative air ions lower the air bacteria and virus activity in homes, factories, farms, indoors and outdoors alike. Here is a good reason for vacations to the seashore, forest, and mountain areas.

➤ Oxygen consumption by liver tissue is increased when exposed to negative ions, and we are aware that oxygen is a natural combatant of biological bacteria and virus. This discovery was made by the scientist Lotmar, after extended and careful test experiments.

Also, water treated before intake with negative air ions, the treatment only a few minutes in duration, affects and controls many forms of bacteria in the water. This is similar to treating water with negative magnetic energy.

There are similar effects from negative and positive air ions and what we have found in our research into negative and positive magnetic energy. We believe our research, findings, and independent verification of our work prove a broader concept of energy, and energy fields, than is used in textbooks and practiced by most

of the scientific community. Energy potentials seem to carry the character of definite effects, regardless of that form or shape of energy in Nature.

Here, we have no hesitation in restating our previously published conclusion that the most important energy in Nature, regardless of its type or form, is the negative potential of any and all energies. Please do not confuse energies with personality attitudes. A positive or negative attitude is not the same as positive and negative energies. Much confusion and misleading information is given in many books and publications on this misunderstanding.

Our work shows that the negative energy of Nature is the life-sustaining energy, the healing energy, the energy in the balance with the positive energy of Nature that, when a little more prevalent than positive energy, is the better energy for life forms. Positive energy is an energy that promotes life in all forms and shapes, but we conclude from our research findings that the positive energy must be tempered with the negative energy in control for health, healing, and happiness. More detail on the experiments and findings for this conclusion are found in our previous books, *Magnetism and Its Effects on the Living System*, *The Magnetic Effect*, and *The Rainbow in Your Hands* (Exposition Press, New York), and in our later chapter, "The Art of Magnetic Healing." The presence of each energy is of the greatest importance to living systems, in a balance of negative energy control, or the use of a separate energy for a specific need and application as mentioned in our previous publications. It would appear that negative energy is the predominant energy control for external environmental conditions healthful to life forms, as it is for healthful internal control.

It was through Dr. Kreuger's research in California that the discovery was made that serotonin 5-hydroxytryptamine, or 5-HT, was affected by negative air ions. The neurohormone is versatile and powerful, capable of acting to induce neurovascular endocrinal and metabolic effects. Since 5-HT affects, and to some extent controls, necessary body functions, including those of the brain and nervous system, the evidence seems clear that negative ions, or positive ions, affect us emotionally, physically, and mentally in the way we feel, think, and respond.

Negative air ions are one of nature's laws of adjustment for balance of peace and order in the harmony of nature. Dr. Kreuger has opened the door of scientific investigation as to how and why

negative air ions assist the mental, emotional, and physical activity of mankind. His research verifies previous theories of many years' work by a great number of dedicated scientists.

Positive ions will adversely affect your emotions and physical behavior, giving you a sluggish mind. Negative ions encourage clearness of mind and body and are an important balance in nature to maintain the best balance in your environment, externally and internally.

An example of negative and positive air ions affecting all of us is probably best described by our reaction to drastic changes in the weather. Prior to many types of storms, lightning, thunder, build-up of clouds, and such, you may have felt dreary, tired, letdown, sluggish, perhaps irritable, and oppressed. You could say in justification, "This is really not me but those blasted positive ions that have built up in this change of weather." Scientific certification now gives you this reason, although you should realize that science also verifies that, although we would react generally to this condition, we would act, individually, in varying degrees, since no two human beings have the same distribution of nerve endings or branches of blood vessels. Although similar, we are not exact, externally or internally, in our individual makeup.

Shortly after a storm or heavy clouds have cleared, you will notice, in varying degrees, how much better you feel, less tired, more get-up-and-go feeling, a clearer mind. Negative ions have swept into your atmosphere; the air is more clear, and rain has washed the air free of many pollutants and impurities. Many of you realize what a good feeling you have when it is raining. You know it is good for you. Perhaps you didn't know about positive and negative ions, but you feel good, so you find yourself and others saying, "The crops need this rain"; "This is good for the grass." Humidity, pollutants, and other impurities may soon change this pleasant atmosphere, but there will be a time long enough for the healthy effects on you of air relatively free of positive ions.

Evidently, there is some recent scientific validation that living at higher altitudes may lengthen lifespan, according to Dr. Edward Mortimer of Case Western Reserve University, in a study recently completed on persons living at higher levels in the mountains of New Mexico. The study was inconclusive, and there were a number of speculations why this could occur, including the fact that

only men and not women seemed to benefit. It is well known that in different areas of the world there is a longer lifespan for those persons, including women, living in higher altitudes. Europe, Russia, South America, and other areas have well publicized this occurrence. Whatever the ultimate reason for this benefit, one of the reasons should be obvious, and that is good, clean air, with an abundance of negative ions.

Negative ions and water have an important interrelation which we have discussed more thoroughly in our chapter, "Water, Humidity, and Moisture." Generally, where you find water in Nature, you find more negative ions if the water is not stagnant but is flowing, or from rapids or a waterfall. And there are more negative ions among trees and in wood growth than in open fields. In open fields on a sunny day there are more negative ions than on a day with clouds over the field.

There has been much discussion and published material about keeping a good balance of ions, considered a level between "1,000 to 2,000 ions per cubic centimeter," with a "five to four ratio" of positive ions over negative ions. This is, frankly, not totally accurate, for better health, healing, and happiness, as the biological system is more agreeable to a balance of negative ions exceeding positive ions, which is also more beneficial than maintaining 1,000 to 2,000 ions per cubic centimeter. Again, we see the significance of the negative energy of Nature, as we have researched and published, to be the more significant energy for animals and human systems. As for the amount of negative ion predominance animals and humans can absorb before a detrimental limit of concentration, neither our research nor that of other responsible researchers we have studied shows any possible limits at this time, although some studies indicate between 10,000 to 20,000 per cubic inch of negative ion concentration may be the most beneficial. In fact, the higher concentrations have shown excellent research possibilities in not only giving a better feeling and disposition, but to be a successful treatment for the future arrest of ailments and diseases.

If negative air ions act to combat bacterial and viral disorders in animals, this is another indication man would be similarly affected. In our research laboratory we have duplicated some of these cases reported by Drs. Kreuger and Reed. For example, we have found from our research that when increased negative air ions were imposed in the atmosphere of laboratory mice and rats, those

animals infected with influenza had their symptoms reduced to arrest and control in a short period of time, whereas those laboratory animals with influenza in a predominately positive air ion environment did not survive. No other medication or treatment was administered to the surviving animals.

Another researcher of recent note in this field of scientific inquiry is Dr. In Su Kim of Korea, who has designed advanced technical instrumentation that could aid the medical community with suitable and effective negative ion atmospheres. This new and novel design was recently granted a U.S. patent. Dr. Kim and his engineers have visited our laboratory, and he has acknowledged our assistance in overcoming difficulties with his design instrumentation, which generates negative air ions. Dr. Kim has broadened his research into the effects of air ions on fluids, compounds, acids, and alkalines. His instrumentation has been applied on human subjects in Seoul, Korea, since 1976. Dr. Kim is a graduate of the Carnegie Institute of Medical Technology, Boston, 1967, and he served on the staff of the Research Department of Biochemistry, McLean Hospital, Belmont, Massachusetts.

One of the interesting facts we have found in our laboratory research with tobacco smoke is the difference in positive and negative ions. Generally, it is apparent that pipe tobacco smoke produces much fewer positive ions, almost negligible, than does cigarette smoke. Differences in brands or tobacco used will not affect this conclusion. Cigar smoke also produced noticeably fewer positive ions than cigarette smoke.

Air ions are very small particles that can be absorbed rapidly in breathing. Air ion generators available to the market do not all function similarly. Some of these machines produce heavy ions, which take up more space and are not absorbed very well in breathing. Heavy ions are not found in air. Ion generators that can produce both air ions and heavy ions are most desirable since air ions, negative, are more suitable to breathing; whereas heavy ions are more suitable for biological treatment. Ions penetrate more at higher frequencies while lower frequencies absorb more ions.

Although the flow of energy in electricity is from positive to negative, and in magnetism circles of eight spinning clockwise or counterclockwise, positive to negative, it is found in ions that the flow is negative to positive. Regardless of the energy flow in Nature, electricity, magnetism, ions, gravitational and atomic energy

SIMILARITIES AIR IONS AND MAGNETIC ENERGY

<i>Effects</i>	<i>Neg. Ions</i>	<i>Neg. Mag.</i>	<i>Pos. Ions</i>	<i>Pos. Mag.</i>
Performance	Improve	Improve	Decrease	Decrease
Work Capacity	Improve	Improve	Erratic	Erratic
Disposition	Pleasant	Pleasant	Depressed	Depressed
Reaction Time	Decrease	Decrease	Increase	Increase
Equilibrium	Improve	Improve	Erratic	Erratic
Metabolism	Enhance	Enhance	Irritate	Irritate
Pain	Relieve	Relieve	Increase	Increase
Allergic Disorders	Relieve	Relieve	Increase	Increase
Healing	Enhance	Enhance	Irritate	Irritate

forms, they exist in a natural state of balance, expansion and compression, heat and cold, positive and negative, and where disrupted will again seek a balance of peace and order in the harmony of Nature. Possibly, different test results published on a number of research experiments may show their differences due to the higher concentration of positive or negative ions in the environment during the testing period, as this control is not often considered in many published findings. This is certainly an interesting factor to consider since negative or positive ions have different effects on biological systems.

Positive and negative air ions, like other forms of positive and negative energies, do react on bacterium, virus, and other complaints. As the majority of researchers have found, high dosages of negative air ions are lethal to bacteria and viruses. Positive air ions can be effective under controlled facilities to overstimulate bacteria/viruses, thus killing simply by overstimulation, not the best method when the problem is in a plant, animal, or human being; whereas negative air ions, as other forms of negative energy found in Nature, will act on living systems to arrest or control these bacteria/viruses. The problem can be eliminated and the living system will continue in health, healing, and happiness. Similar, although a different form of energy, are the two unlike energies of any and all magnets, their North and South poles. The South pole energy, positive in nature, with a righthand spin vortex of motion in matter, reacts as positive air ions on biological systems. The North pole energy, negative in nature, with a lefthand, or counter-clockwise, spin vortex of motion in matter, reacts on biological systems as does negative air ions.

The air we breathe and live in, in both work and leisure, plays an all-important part in our ability to live our lives in the way Nature intended. Since air can carry disease as well as heal or control our lives, we should all work toward a greater understanding of this part of our natural surroundings. Our health, healing, and happiness will depend on our understanding—and proper application—of this natural gift to man which supports his very existence on this earth.

V WATER, HUMIDITY, AND MOISTURE

Your health, healing, and happiness are to a large degree, determined by the part that water, humidity, and moisture play in your life. Water is a God-given gift of Nature which is most important for life-support systems. Without water, all life of all forms would not exist on this planet.

Next time you hold a glass of water in your hand, consider it as having almost every conceivable value known to mankind. As long as history has recorded humanity, investigations into the understanding of water have existed, and, regardless of experts who say otherwise, much is still not known about "just plain water."

Books, scientific treatises, and reports have been written on the values and properties of water, how water can and does affect your health, from the use of water in preparing foods to the ordinary act of using water properly in your personal bathing.

In our presentation in this chapter we present material that is not only new to the reader, not just from other books and information sources, but from our research and experience into understanding this gift of Nature. Water—spring water, tap water, distilled water, pure water—is of value to your understanding the natural arts and sciences of your existence. Nature made water for your use in the matter of its natural state, in the skies, under your feet, in the very air you breathe, and as a controlling factor in our atmosphere.

Water covers more than 73 percent of the earth's surface. It is predominant in our body system and that of many biological systems, about 70 percent in the human system. The skin of our body contains approximately one-third of all our blood, and the major component of our blood is water. Approximately 50 to 80 gallons of blood circulate through your skin each hour.

Our atmospheric environment was not created by accident. This function exemplifies Nature's plan in balancing the air and

atmosphere with the heat of the sun and the coolness of the nights, a balance necessary for man and all creatures in order to survive on, and under, the surface of the earth, a balancing law of necessity, and not simply by chance.

The scientific community is mainly concerned with the cleanliness of water, not the basic understanding of water's nature or how it can be used properly in the treatment of many disorders. Here again is an example of how science has taken a narrow view in ignoring the natural and beneficial use in the application of water. Instead, we see and hear of the increased use of chemicals and additives to water, many of which are harmful to the human system.

The correct use of water, how natural water may affect animal and human complaints, as a method of treatment is known as balneology. The term comes from the Grecian-Roman treatment of diseases by bathing and other water cures. Balneology is now practiced in a number of the world's nations, including Russia, where research is foremost in this field of science. For example, Soviet and European scientists are eliminating chlorine for water purification, because chlorine forms chemicals that cause cancer in animals. Harmful ozone gas is used to purify for natural drinking water. While in the United States, where science travels the road of more and more drugs, chemicals, and machines in seeking health, healing, and happiness, other nations are moving at a rapid pace into more natural applications. Basically, the misunderstanding by the scientific bureaucracy in the United States of how to use and apply natural water has brought the nation to the brink of disaster in the living of natural lives.

In the human system, that part of our system referred to as the skin carries one-third of our blood supply, predominantly water, and we find a number of natural facts of interest to our natural living not generally considered. It could be said, and is so considered in some medical areas, that the human skin is the largest functional human organ. On the cell theory in science, this would have some validity. All humans and animals have this major organ in their makeup.

Your body heat depends on the structure and condition of your skin. It is a major carrier of your blood, and it actually breathes. Further, it acts to remove body water, poisons, and secretions.

The term "body odor" is the result, in part, of the breathing out of these waste materials by the skin. Think a minute of what you

are doing when you apply creams, pastes, and sprays to stop perspiration, water, and toxins from leaving the body. You are preventing a natural occurrence necessary for your existence. The better way, if you do need these chemicals, is to seek the bodily cause and do something about that. It could mean you may have to change your eating habits or you may need internal medical treatment. True, the human system does compensate to some degree for your obstructing this natural function, which can lead to more serious difficulties.

Do skin cancers result from these artificial applications to your skin? Yes. Not only have some of the additives shown a link to cancer, but consider the fact that you are upsetting the balance of natural body functions in the removal of toxins and body waters. There is too much concern in societies in using body applications than in approaching this matter by natural living, determining and solving the problem to lessen these skin applications.

You can help yourself to feel better, and act to control the natural function of your skin, without making the pharmaceutical manufacturers wealthier, as you grow poorer in money and health. Consider that the term "pharmaceutical" comes from a foreign translation meaning "witchcraft," and consider the benefit of your bodily function in your skin eliminating materials as intended for natural living. Consider there are over 3,000,000 glands in your skin assisting the secretion of poisons. Natural living always means self-help, so don't blame the advertisers and the manufacturers for your dilemma.

As a result of improper use of water, oils, creams, pastes, salves, tonics, powders, and sprays, your skin will age more quickly than naturally intended, taking on a dry and parched appearance. Also, you should use natural soaps and not apply chemically laden soaps to your skin. Many of you, unbeknowning, are allergic to these chemical additives, not only in soaps, but in other preparations for the skin. Evidence increases continuously that health problems of one kind or another are due to a person's sensitivity to chemicals.

Below and about the surface of your skin are millions of nerve endings. They act to signal warmth, cold, stinging, and tickling sensations. They send to your brain millions of sense impulses and reactions as biological voltages, stimulating areas of your brain. Your flow of body energies in the balance of your system, like your flow of nerve energy, is affected by chemical preparations

with the obstruction of your body's perspiration. The natural water, humidity, and moisture of your skin need your self-help in assisting the balance required for better health, healing, and happiness.

There are a number of research findings by scientists claiming that certain chemicals will assist the development of human ailments, including skin cancers. Also, sweeteners, food dyes, and artificial sugars, many chemicals and substances too numerous to discuss here, are announced one after the other, usually from experiments on mice and rats. We feel there are facts we should disclose about these tests, not only for your information, but because of the relation of your bodily functions with water, humidity, and moisture, in regard to these chemicals and substances.

These research findings are not confined to United States scientists, but also scientists in Canada, England, and other countries. Basically, it seems apparent from the facts presented that further investigations are required for many of their findings. For the most part, insofar as we can determine, the findings are based on a very high intake or concentration of the pure or diluted chemicals for these tests. For example, we find that the weight of the chemical usually ranges in dosages to the test animal equal to .02 percent to 20 percent of the total weight of the animal. If this type of unscientific testing was done on human subjects, we would expect to see as a result not only the development of cancer, but also the development of blindness, brain damage, loss of voice, and other catastrophes, so more common sense is needed in this experimental research, as it is needed in all experimental research.

If you fed a member of your family one of these suspected cancer-causing substances equal to .02 percent to 20 percent of that person's total weight over the same period of testing time, there is no doubt in our minds many disorders would develop. Even chemicals and substances considered very safe for human use, in limited to medium amounts, containing no toxic materials or poisons, will, if continuously fed in these amounts, adversely affect bodily functions and even result in death. For example, iron is necessary for your natural function. If you took a prescribed iron tonic, starting as young as the age of twelve, your system would normally accept this chemical, especially the female's system, which generally needs more iron than the male's. However, if you were to take four to ten times your normal body requirements, you stand a good chance of your teeth and gums decaying, as well as other

parts of your system eventually suffering from this overdose. It's the same situation as having too much sunlight on your skin. You need sunlight to survive. It helps to lower blood pressure and cholesterol and gives you a feeling of warmth and well-being. However, you can damage your skin by overexposure, and, here also, there is considerable scientific evidence to a reasonable degree that all these sun lotions on the market really don't protect the skin all that much, even when you tan well.

The Food and Drug Administration (FDA) practices a literal interpretation of the law in that any substance that can cause cancer in test animals should be banned, regardless of how much of the substance would have to be consumed by a human system. In support of our position in this matter are some following examples brought to attention of a congressional review and publicized by Rep. Larry McDonald (D, Ga.), a physician as well as a congressman. The FDA banned oil of calaums, used in vermouth, the FDA later agreeing that "in order to get an amount comparable to that which caused effects in rats, a person would have to drink 250 quarts of vermouth a day." In the outlawing of safrole for soft drinks and candy, "A person would have to drink 613 twelve-ounce bottles of root beer-flavored soft drink or eat 220 pounds of hard candy per day" to equal the effects of safrole on experimental rats. On cyclamates as an artificial sweetener, "An adult would have to drink from 138 to 552 twelve-ounce bottles of soft drink a day" for the concentration that developed cancer in rats. Other requirements on banned substances for humans are "eating 300,000 times the average daily diet," and "100,000 times the average daily diet."

There has been no definite relationship established between cancer in rats and cancer in humans. A number of reports are available for this conclusion, including research on 1,000 humans by Dr. Irving Kessler of Johns Hopkins University. This study showed "absolutely no evidence whatsoever that saccharin or cyclamates caused bladder or any other kind of human cancer in the amounts humans ingest them." Moderation is a rule for health, healing, and happiness we stress throughout this book. It is the proper guide when research reports are indefinite and misleading and cannot be definitive for human behavior.

Moderation and good common sense should be used in all these matters. Remember, we are all a little different from one another. Seek your natural state the best you can in your living and main-

tain this natural state for health, healing, and happiness. Don't let all these unnatural scientific findings upset you. Demand more facts before you depart from the natural existence you are maintaining. There have been, and will continue to be, scientific reports causing great concern which will, in time, find their dusty pocket of forgetfulness, if you demand more acceptance to natural bodily functions before you adopt the conclusions prescribed.

With many, if not all, chemicals and substances applied to the skin, and those taken internally, water plays the major role in dissolving these materials into the bloodstream. Water is, without doubt, the body's principal biochemical communicator.

The diseases of modern civilization are increasing rapidly. You don't simply have influenza anymore, as many new strains now exist and these, as other types and number of diseases, are defying antibiotic control. A number of foreign and domestic science releases indicate that the way we treat our skin may be the reason for increased diseases and complaints. We agree and, for your self-help, emphasize such in this chapter.

Normally, we attempt to keep warm in winter or on cold days, and cool on hot or very warm days. In covering or exposing the skin, we act to defeat the skin's natural functions to keep the pores closed on cold days and open in warm temperatures. Moderation is your guide; don't overdress in the winter, or become a nudist in the summer. Remember, your skin's primary function is to breathe.

Water is important in keeping your skin healthy. A shower is best, not a hot bath. Cold, hot, or lukewarm water, when used in a shower, will scatter minute pressure taps on the skin, vitalizing and cleansing the pores. A hot bath loosens necessary body oils, draws the pores, and shrinks the skin, and you lose the massage effect of showers. Lazy baths are similar to putting your skin through a wringer. Cool, or slightly warm, water is best for your skin, as well as for washing your hair.

Elsewhere in this book we discussed the effects of negative air ions on your health and welfare. Negative ions and water have a correlation. Water generates negative ions beneficial to your existence. A water jet from your shower head acts to produce negative ions. Negative ions are also generated near the surface of a waterfall. In the country, the forests, and the mountains, there are natural falls giving you a restful and peaceful feeling from the environment of negative ions. These "forest airs" are produced by your

shower head. If the water temperature of your shower is lower than your body temperature, you will breathe negative ions into your system. Shower spray will cover most of your body, allowing the skin surface to receive these ions, and the skin will breathe them in, perhaps the prime reason you feel refreshed and full of vigor after a shower.

We continually find that Nature's benefits cannot be abused. Peace, order, and harmony exist only in moderation with the gifts of Nature. Very cold or very hot waters are undesirable; the temperature should be slightly below body temperature. Excessive showers will wash away the protective and natural oils of your skin and hair.

The use of hard water in many parts of the country has resulted in much investigation into its benefits for the people. A number of researchers and professional medical men have expressed, in discussions with us, their beliefs in this use of water. Our studies in the natural sciences, as well as published reports, show heart ailments are far less in number where hard water is commonly in use.

In a report for the Environmental Protection Agency (EPA), the findings of the Academy of Sciences indicated "sufficiently compelling" evidence that hard water may protect against cardiovascular disease. This report also identified 22 organic compounds out of a possible 161 elements and compounds in drinking water as known or suspected cancer-causing agents. Chlorinated water, consumed by more than 100 million Americans every day, is suspect as a major contributing cause. Dr. Robert Harris of the EPA believes "chlorination probably accounts for 5 to 10 percent of all cancer cases." Chlorine can interact with organic matter in water to produce a chemical called chloroform which produces cancer, and this chemical was found in the water of 80 American cities tested by the EPA. Chloroform can be greatly eliminated from drinking water by boiling the water two to three minutes or using an inexpensive carbon filter that screws to a water faucet.

Some areas have acted to prohibit the use and sale of water softeners for home or medical use based on this possible detriment to the heart. Also, chemical mixers in water softeners may cause copper water pipes to dissolve slowly. Excess copper in your water could be poisonous.

Although soft water may be more pleasant for drinking pur-

poses, and it will give you more soapsuds for your washing machine, there is a weakened binding between the hydrogen and oxygen atoms in water, acting to destroy the natural use and application of water. Although soft water does exist in its natural state, for the most part man must add chemicals to soften water for drinking and washing purposes. Much advertising stresses the use of soft water as "good for your hands, face, and body, and for your washing machine," and you are advised to use special chemicals added to soaps and powders, body creams, and lotions for that softness desired. This has no adequate basis in natural science for your health, healing, and happiness.

As we have explained, in the need of the skin to be firm, not crease and shrink, the use of soft water, and especially with chemicals, will hasten the aging process. Soft water is desired to produce more suds for washing clothes, but softening body tissues is not desirable. Weakening of the hydrogen-oxygen molecular bonding in water allows excessive water to remain in the pores of the skin, eliminating proper breathing by the skin, and having a more permanent effect in destroying natural body oils.

Beauty aids for the face, hands, and skin, with their numerous chemical additives, contribute in softening the skin, affecting natural means of breathing and perspiration. Face creams with oils and animal fats are prevalent, as well as face powders with chemicals that dry and parch the skin. Fresh air and hard water are better than these creams and powders. Skin that shines is healthy skin due to the firmness of natural oils, air, and water. Nature gives you a shiny nose and skin to show you are healthy. Before the onslaught of chemical advertisers, cornstarch, a natural powder, was used to cover a shiny nose, and to avoid dryness in skin and hands, Vaseline or petroleum jelly was used. These are still excellent items, not generally expensive, that can also be used on the scalp to prevent dryness and to give hair a natural luster.

The use of soft water, usually with chemical additives, now enforced by many government agencies, has a seriously detrimental effect on your health and welfare. The regulatory bodies are giving you what you want to look better. You are sacrificing extended health for temporary appearance. We abuse our skin with chemical paints, lotions, and creams, as we would paint a building for appearance. Our skin is not just a covering but a vital part of our functional system. There are thousands of organisms living on the

surface of your skin that could overcome your body's internal defenses if allowed to penetrate within. Adding artificial paints, lotions, and creams to these bacteria hosts only complicates more interaction problems for your natural living.

You will spend exorbitant monies to have "water therapies" in health clinics now in a number of world nations. Now you know how to have this treatment in your own home. Use a shower with water slightly lower than body temperature and you will look and feel better. Avoid hot baths and sweat rooms, called sauna baths, that remove natural oils and act to keep skin pores open. Extremes are not desirable, for example, torturing the skin by cold showers after hot baths and sauna rooms.

The mandatory adding of chemicals to your drinking water to assist in clearing your water supply of bacteria is, in one sense, the practice of medicine by governmental agencies that force upon you chemicals dangerous to your health. You can move from these cities, towns, and villages, or you can form a citizen's committee to join forces against these unnatural methods of altering your drinking water. The proper method is to clean up the water from pollution and chemicals, to have more natural water by enforcing pollution controls, because your health is more valuable than the future of some bureaucratic group pressuring the use of artificial water against its natural benefits. The U.S. Public Health Service studies have shown that two out of three community water supply systems are unfit for human beings to drink.

What is natural water? A definition would be "that which is formed from Nature." Yet, water exists in different forms in Nature as well as different chemical compositions. Basically, water is H_2O , two parts hydrogen to one part oxygen, with various trace elements of minerals and gases.

Natural water comes from the skies, oceans, mountains, streams, and lakes. Oceans cover approximately 73 percent of the earth's surface. Heat from oceans causes vaporization of water from surfaces of oceans to form clouds, and when clouds build up to saturation, water is released and returned as rainwater to earth. As water evaporates from oceans, condensation from cooling occurs by contact with colder bodies of land, such as mountains or cold air currents from the polar regions. Rainwater returning to earth has been desalinated by steam rising from the ocean's surface. There is salt in the ocean but there is no salt in clouds.

Pollution in the clouds is caused by man; water is one of the few free natural bodies not affected by the usual radiations from outer-space. It is the impurities in the atmosphere that pollute the water. Water draws impurities, and man-made civilizations furnish the impurities, chemical wastes in streams, rivers, and oceans, the dumping of raw sewage, oil spills by tankers, insecticide spraying, thousands of acres sprayed by airplanes, smokestacks of industrial progress, and any kind of impurities.

At higher elevations, more natural water exists, providing no industrial concentration or other dumping waste interfere. It is the authors' opinion that aerosol cans, as used on the surface of the earth, have no significant effect on the ionosphere shields and protective ozone layers above the earth, basically due to the small quantities needed to reach these areas from their use on the surface, although a United Nations report has estimated that one percent of the earth's ozone layer has been destroyed by fluorocarbons. Aerosol, freon, other light gases fall in this category. The lightest gas known is hydrogen, principally found in water. Quite a difference exists between unburned hydrocarbons from the exhausts of automobiles and motor vehicles. These gases are heavier than air and remain closer to the earth's surface. They influence our breathing and our general health. Containing nitrates, carbon monoxide gas, and sulfur particles, they also destroy gardens, flowers, the fabric of your clothes, and the paint on your homes, and are even known to deteriorate women's stockings. Industrial smoke and pollution, toxic sprays, insecticides, and unburned hydrocarbons affect adversely all animals, plants, vegetation and human beings. The more trees, shrubbery, and green foliage, the more carbon dioxide absorbed and oxygen released. Without trees, plants, and green foliage, it is possible man would not receive necessary amounts of oxygen to survive on earth. With increased pollution and the destruction of the natural environment, man has hastened his own doom in this era of civilization.

Until man learns to live and work with the natural energies of Nature, there will be no survival for man as we know him, and civilization, as in the past, will perish from the earth. Under our primitive living in civilization we are no better than the small animals that run and seek shelter from the environment. Man is not surviving on the surface of the earth exposed to the full fury of Nature, which is natural to Nature.

It may well be that mankind will have to burrow into the earth, even under the oceans, to establish a society protected against the environment, allowing mankind to continue on in a stable and healthfully controlled environment. In this way man would to a much less extent be subjected to the cycles in Nature of prehistoric return, to the caveman period, and then a slow return to some reasonable form of intelligence, with so little time to advance the consciousness of humanity.

Natural water, that is, pure water, is hydrogen and oxygen with no impurities whatsoever. Pure water is not generally sold to the public as it immediately can become impure and dangerous by exposure. Momentary release of a cap on a container of pure water will attract impurities. Laboratories use pure water for research, and hospitals inject pure water into human systems that have undergone shock reactions.

Mineral water, another form of natural water, comes from deep wells, from limestone, volcanic rock, or just deep groundwater, and contains minerals from the depths of the earth, where water has been filtered and purified as it flowed through strata of the earth. While flowing, this water picks up minerals such as iron, aluminum, potassium, magnesium, sulfides, nitrates, and other trace elements. Below the surface of the earth are millions of underground caverns and streams carrying mineral water that normally never comes to the surface, but flows into the oceans. Some of these flowing waters do surface, forming lakes and streams on the earth's surface. Geysers, such as Old Faithful in Yellowstone National Park, occur when water reaches a volcanic strata and converts to steam. The number of minutes between geyser eruptions is dependent on the time required for water reaching volcanic strata to be converted into steam.

Distilled water is boiled water, steam collected and converted back to water. This is not natural water. All the minerals and trace elements that are required by the average human being or other creatures on this earth have been removed. The total intake of distilled water is a deprivation. As a result, your body has to produce more salt, more iron, more minerals to sustain your life. Distilled water is dangerous to your health, healing and happiness.

As human blood is saline, salt is necessary to supply your blood. A totally salt-free diet is unhealthy and very dangerous. It causes your body to overwork to produce the salt of which you are de-

priving your system. A minimum of 200 milligrams, one-tenth of a teaspoon, of salt a day is required by children and adults. Under conditions such as excessive sweating or strenuous labor, just under one teaspoon, two grams, or even more could be the daily requirement. Excessive daily use of salt may cause hypertension and high blood pressure, leading to heart difficulties. Remember, the saline condition of your blood, in many instances, is a deterrent against invading viruses and bacteria, salt being poisonous to many viruses and bacteria. Your blood demands salt to maintain this lever of protection. In our chapter on food and nutrition, we will more thoroughly discuss this matter, but you should be warned that "no diet is good for everyone," and, to maintain your health, healing, and happiness with any form of diet shock treatment to your system, professional supervision of your changing system is necessary to prevent serious illness.

The amount of water in air determines the humidity. The higher the humidity, the less oxygen we breathe and the more sluggish and depressed we feel, the same as with a high ozone count. When our barometers drop, this is a sign of more water in the air and may signal an approaching storm. High humidity is not only depressing to human systems, but will form fungus, mold, mildew, and, in tropical areas of the world, where it always seems to be steaming, it produces a condition known as jungle rot.

Ozone can be controlled and used in water for purification, but ozone in the atmosphere can be dangerous to the biological system. Ozone is a hybrid form of oxygen with three molecules instead of two, making it unstable. Ozone forms smog, aggravating asthma and heart and lung diseases, as well as other breathing difficulties. The principal cause of ozone is exhaust gases from motor vehicles reacting with nitrogen oxides and sunlight. And it has been estimated that lead poisoning from gasoline burning causes "up to 400,000 children to be sick every year, some suffering permanent damage and two hundred dying," according to Dr. Morris A. Wessel of Yale University Medical School. Dr. Wessel further states that "lead accumulates in the blood, softening cerebral tissues and massive accumulation of fluid in the brain can bring death." Studies on adults are not conclusive, but the indications show serious effects, perhaps more deadly on elderly persons.

It is essential for health, healing, and happiness to keep humidity in the home no higher than 50 to 60 percent. Persons with

bronchial and lung ailments and asthma sufferers would be more comfortable with a home humidifier. A respected study completed by Dr. Gregory Traunor of California, and reported at the Fourth International Clean Air Congress in Tokyo, listed the following dangers of indoor pollutants: "carbon monoxide, nitrogen oxide, nitrogen dioxide and sulphur dioxide from gas stoves and furnaces; carbon monoxide and other substances in cigarette smoke; vinyl-chloride and fluorocarbons from aerosol spray cans; and organic compounds from products used in cleaning and cooking." There are obvious means to employ in eliminating these dangers in design and ventilation of living quarters, appliances, and personal smoking habits. Until this change in life-style occurs, the indoor atmosphere is better protected by safer and more efficient, and less costly, negative ion instrumentations and home humidifiers.

Desert areas, or dry areas where humidity is very low, offer conditions of excellent preservation. The bodies of flyers forced down in these areas have been found years later in preserved form. It would seem that with less moisture in your air, not only will you feel better, but you will have an added chance for a longer life on this earth.

There is much discussion on the pros and cons of fluorination. This is the use of highly toxic chemicals, so many parts of concentration as added to a water body, principally to poison water against bacteria and viruses to lower the bacteria count. Fluorides in toothpaste have also become a common occurrence. Fluorination is similar to prescribing a medication to the area population without a prescription; therefore, city commissioners and toothpaste companies are in a sense practicing medicine without a license. This involuntary administering of poison is driving millions of Americans to buy distilled and mineral water.

The answer to fluorination is to simply clean up the water without introducing chemicals by eliminating the dumping of sewage and chemical wastes. And the American Dental Association argues that fluoride prevents cavities. The cause of cavities does not require a poisonous tooth paste. It requires a sensible intake of sugar to the system and avoiding excessive pastries, candies, sweets, and soft drinks. Even a high intake of sugar would not give difficulty if the teeth were brushed after eating. There are natural toothpastes on the market, and perhaps the best is an old and valued remedy, baking soda and water. Baking soda contains no

harmful fluorides, acids, or chemicals, and is safer and more natural to your health. Baking soda, water, and some salt in a mixture will firm up the gums and keep the teeth clean.

Chlorine is another very important poison used frequently in water. Chlorine and fluorides are used in swimming pools and drinking water when the introduction of baking soda or ozone gas can do the work for a more natural existence. For many years, baking soda was used to keep swimming pools clean and clear. The vast development of great and powerful chemical interests in the United States has brought about this almost mandatory use of these two deadly poisons into our lives today, from our toothpaste and our drinking water to our swimming pools.

Drinking water has now entered a new era in the United States. A new system implemented by the Environmental Protection Agency and the Safe Drinking Water Act of 1974 gives federal jurisdiction over the purity of drinking water and other operational matters of 240,000 water systems. Authority is also retained by the United States Public Health Service when outbreaks of water-borne diseases occur. Since the governmental agencies still favor the use of chlorine and fluorides, we should not expect any startling new advances from this new bureaucratic implementation. Until there is an approach (and implementation) to have our drinking water clear and healthy without the need for dangerous additives and chemicals, we will continue in this area, losing scientific acceptance to other countries more progressive in natural living. It is our belief that continued research into the separate energies of magnetism may provide the required prescription, and patent applications in this area are pending.

VI

FOOD AND NUTRITION

If Samuel Clemens were alive today, he may rightly say that everyone is talking about food and nutrition. Then he could go on to say that reading several books on the subject could be a repetition.

In this chapter, in the attempt to bring to you new and provable facts, we have avoided the constantly increasing act of authors reading other books and presenting the same facts in a new book. Not that some of our material may have enlightened some previous exposition, for in that matter all credit is due, but we are overwhelmingly impressed that really nothing new has been written on food and nutrition for many years. We present our information, which we feel will assist those of you interested in a natural food intake and, of equal importance, a balanced intake of the correct food for that person's needs.

A scientist friend had a difficult time with the scientific community accepting his views. When his views were facts, he did not publish them as theories. Now, his views accepted, there is less theory to discard in computers, and, in reverence to our successful friend, we state a fact that eliminates most of the food and nutrition books on the market now, in the past, and, we can be sure to common behavior, in the near future. That fact is **NO FIXED DIET ADVERTISED OR RECOMMENDED IS SENSIBLE FOR ALL.**

If you retain only one important fact from this chapter, it should be that for the most part, if not totally, no two people are exactly the same in their need for certain foods, that is, until you have yourself in such good condition you won't need nutritional assistance, and that day and age is not, unfortunately, near the horizon. Your fingerprints and your footprints are not your only distinct and different features; so are your stomach, organs, skin, and circulatory and digestive systems. From the day of your birth you are different, as are even identical twins, and your environmental living and influences increase the differences.

Certainly, there are categories, types, and molds for language communication in attempting some orderly discourse which are too inclined to be accepted as more than guides or formulae. Our nerve fibers, the other many connective parts of our system, from the interrelation of our electrochemical brain to the wiggling of our little toe, are separate and distinct, all to the glory of our functioning creation operating with the energy of matter that gives our existence. It is not wise to follow any advertised or recommended diet unless we first discuss it with our nutritional counselor or physician, who knows what we need and do not need.

Health foods are in need today for the person interested in increasing or decreasing body weight and to have a pattern of health allowing freedom in the choice of required foods. No proper nutritionist or physician would tell everyone to follow a certain food pattern. Yet many books on the market today state that certain foods should or should not be taken into the human system without exception. Any proper understanding of one's basic food needs should consider the very fundamental needs necessary to support the living system for health, healing, and happiness.

Food alone cannot guarantee good health. Living habits, the working and living environment, stresses, fears, and the mental state of a person—all affect one's health. You and your environment, your life-style, the work you are doing, or, just as important, the work you may not be doing, are the outlook and approach for proper food and nutritional needs.

A basic understanding should start at the beginning. What is food? It is that raw material taken into the body system of all living beings as a source of energy to renew their own structures to afford and support their life systems.

The source of food for man and animals comes from plants, vegetables, fruits, roots, herbs, and other animals. The law of survival in the seas is similar, as fish not only eat other fish but smaller life forms, such as underwater plants, grasses, and microorganisms.

The largest of the animals on this planet live only in Nature on grasses, vines, leaves, and natural growing plant-life products. Their systems are designed to chew and properly digest foods that were not programmed for man to chew and digest in his system for survival. Many animals thrive on high-fiber materials man finds difficult or impossible to digest for food consumption.

For example, the cow takes her nourishment from green, growing grass. Her system provides milk for her young and also man. A human being cannot properly digest green grass, nor can a member of the cat family. Neither man nor the cat has the ability to digest fibrous structure of common or improved grass. The cow has several stomachs, not one, as do the cat, the dog, or man. These stomachs break down the grass, digest the fibers, and remove the food value from the grass for life support.

Green, growing natural grass is pleasant to observe and has a wonderful fragrance when cut and standing in the fields. The pleasant aroma is the escaping chlorophyll and other vital nutrients man has yet to understand properly how to "bottle" for human use.

Man could starve to death walking, riding, or lying on a beautiful field of grass, and he has. Man could die of thirst walking through grass, which he has. Man cannot digest grass, but he can place a handful of grass in his mouth and, by chewing it, receive waterlike chlorophyll fluids with the same basic nutrients as water, and he could thus survive. Yet man is not as wise in this respect as many of the wild animals. Still it is a wonder that the giant pharmaceutical firms have not marketed bottled grass since, at the beginning of the vitamin products, the stool of a bull was marketed as the source of the first vitamin B supplements. Nowadays, with rules, regulations, laws and counterlaws, food manufacturing, processing, preparing, and packing, natural food is well worn before human consumption (such as white flour and white sugar), and the animals are just too wise to take the chance of eating as man does.

It is well known that all natural food comes from solar energy. Without solar energy we could not have animal or human life, plants, vegetables, fruits, roots, or herbs that provide natural-growing foods. The sun's solar energy acts in a process called photosynthesis, converting sunlight into food; the plant, from this energy, provides digestive activity and food for man and animals. Without solar energy our environmental atmosphere would not furnish the air necessary for man's breathing. This applies equally to all animals. Even fish life in the ponds, lakes, oceans, and rivers must have oxygen to survive. Water contains dissolved oxygen, providing fish and underwater creatures, as well as plants and grasses underwater, with this necessary life support.

With the aid of solar energy, green leaves, grasses, trees, foliage, and vegetation provide nitrogen that is also necessary for all living systems on this planet. Small leaves, as well as tiny insects, bugs, flies, and larger animals, when they die, as well as decaying logs, leaves, and tree branches, act to provide nitrogen in the atmosphere and further the growth of plants. The cycle of nature in life and death is evident in this process. Even petroleum is natural, a natural oil, generally believed to be formed from organic materials, such as plants and animals, buried in sedimentary rocks. The air we breathe is mostly 74 percent nitrogen and 24 percent oxygen; smaller percentages of argon, carbon dioxide, and other gases also exist. If the balance to which man is accustomed changes, then man must adjust his system to these changes or perish. Substantial evidence exists that such has occurred on this planet with manlike species, whether we consider recent studies that man has existed on the earth over 250 million years, or the more accepted studies of man's existence for 3.3 to 3.8 million years.

We could not have food without sunlight nor could we have food without nitrogen. Without green, growing leaves, grass, trees, plant, and animal life, our environmental balance, all from the energy of the sun, cannot produce our natural foods. The food needed by man and animals must have a source of nitrogen, such as proteins. Animals can live on proteins alone, but they cannot live on fats and carbohydrates without a supporting nitrogen supplement.

What are some general misconceptions about foods? Let's start with potatoes since most persons look upon them as increasing body weight. This is not true. There are a number of health reports, including respected foreign reports, that involved the testing of thousands of persons to determine if potatoes increased weight. The results were no increase in weight, and more than usual amounts of potatoes were individually consumed. In fact, potatoes contain digestive starches that pass through the human system with little effort. It is not the potatoes, but what you put on them, that makes them, and other foods, a source of increased body weight.

There will always be some food that is good for the great majority of people, but to some this food will be improper to their system. Since we are all somewhat different in our biological make-up, this is to be expected. Nutritional counseling may be necessary

for a proper food substitute that we can enjoy, as well as take the place of a food that does not agree with us. Potatoes may not be suitable for some, just as eggs, tomatoes, cucumbers, and watermelon are not suitable for others. The list is endless.

What about tomatoes? It is generally said that when tomatoes upset the stomach it is due to their acid content. Well, that is also incorrect. It is not the acid in the tomato but the alkaline that upsets the stomach. This is due to less digestive acids in the stomach. The hydrochloric acids that normally digest food are in low supply; therefore, any alkaline food, such as tomatoes, would react to this imbalance. Anyway, tomatoes are not all that good for us. They contain 33 percent undigested starches and sugars and they could be fattening.

If tomatoes upset your stomach, because they are too alkaline for your system, you can cure this difficulty by taking diluted amounts of prescribed hydrochloric acid as an aid to food digestion before or after each meal. Otherwise, not only tomatoes but other foods will give you difficulties due to the lack of digestive acids in your system.

Now, let's look at the coin from another angle. If you're getting relief checks, perhaps you wouldn't work even if you could. If you're taking a part of the human body and adding an outside stimulant, then that part of your body may well take the attitude of not trying to perform properly since it will be artificially supported. This type of support sends a signal to the system to slow down. Why work, since we will have outside support? If the system can be stimulated to do its proper function without continued support, wouldn't this be the better method?

In our laboratory research, we have increased the flow of digestive acids in animals by placing a small South pole end of a magnet to the animal's stomach for a half-hour each day. Over a relatively short period of time, this positive energy, which is similar to the positive energy of the human system, acted to stimulate digestive activity. This allowed us to feed alkaline foods to the smaller animals, cats, dogs, ourselves, and other volunteers. The details of this research are in our former publications, *Magnetism and Its Effects on the Living System* and *The Magnetic Effect* (Exposition Press, Hicksville, New York). A smaller pamphlet, *The Anatomy of Biomagnetics*, on our animal research, is available

only from our laboratory in Green Cove Springs, Florida. We are not suggesting you use a magnet nor any other method to experiment on yourself. Our material is available for research purposes only. The point we are stressing here is that when a part of your system does not function properly you should seek a doctor or other professional specialist to advise a natural method and not use outside support that will hinder your system from performing as it was intended. Consider eating alkaline foods, then high acid foods. An allergy to a food means trouble in your system, so, let it be a lesson and try to correct the reasons. Poor digestion, gas after meals, stomach swelling after meals, stomachaches, headaches, and a most common symptom, no interest—no pleasure—in foods indicate you need professional assistance.

If you were to listen and read seriously all the information published on foods, you would probably have doubts about eating anything. This situation, as it has in the past, shortens the lives of countless men and women trying to have good health in their mature years. It equally applies to befuddling younger persons. Many health authorities advise that sugar and salt are bad for you; the government advises that you don't need vitamins because your daily intake of food is sufficient. These are preposterous statements. The responsible professional does not hesitate to recommend vitamins if that is what the system needs. And what about sugar and salt?

We know that the amount of sugar in your blood is an important part of Nature's way of providing energy for your system. Unless a medical reason exists, such as diabetes, no person should completely remove intake of sugars, honey, or other forms of sweeteners from their diet. A normal, active person with no medical problems needs a certain amount of sugar intake each day.

We have known personally in some forty years of research a number of food authorities and authors on natural foods whose appearance makes you think they're not long for this earth. Some have written books on diets for the relief of cancers and later died of cancer themselves. Others, with their special diets healthful for everyone, are such a mixed-up group, biologically and otherwise, they really need a good spanking to shock some sense into them. To take a popular opinion, and write a diet book on that opinion, without practical and biological research, is a dangerous concern

we now have with many food and nutrition publications. Remember, the greatest help you can give yourself is to learn what your system needs to support your life-style. No two persons have the same life-styles and reactions to certain foods. It is therefore almost impossible for anyone to advise you completely. Your professional consultant does not have the time, even if he has the concern, to know all about you. Even when you're trying to tell him as much as you can remember to help his appraisal, this information is not usually complete.

Just for a minute, take a pencil and paper and write down the foods that you really and sincerely know are good and bad for you. Be as honest as you can be with yourself, and follow through in your eating habits. You definitely will be appreciative of how much better you will feel and the energy you will have.

Natural foods are good for you, just as some artificial foods are good for you. Try to become more in tune with your system in awareness of the signs your stomach and your system send to your brain. It really does happen this way, so try it and find out for yourself. You have the ability to know more about yourself than any person can tell you. Don't become a mechanical being without thought and feeling for yourself, as advertisements and commercialism threaten in their communications to you. You can listen, read, take advice, and do what you really sincerely know is best for your system, maintaining peace and order in its biological interplay with your environment, and don't let mistakes one day be an excuse for your not doing better the next day. It all comes down to self-help, doesn't it? You've got to help yourself, or all the advice in the world won't help you. You don't need to be an expert, but you can become an expert on yourself, and there's nothing wrong with that, as long as you don't go around getting on everyone's nerves in the process.

If you're sincere about helping yourself in diet and nutrition, there are a few basic rules you can follow, and which many excellent professionals will advise.

1. First, you have to know what you are eating every day, and you really don't pay that much attention. Carry a small notebook with you and every time you put a peanut, soft drink, glass of water, any food or drink into your system, write it down for that day.

If you do this for a week or longer, there is no way you can avoid, if you are sincere, bettering your system by change or supplement for balanced food and nutrition.

2. Take some exercise every day. Walking is the best tonic for most persons, different though we are. Some exercise every day is a big help, and you can increase the amount according to your health; also, it is important to get the proper rest.

3. Try to work without straining. Let it come naturally, so to speak, and have a more pleasant outlook upon your life—an excellent tonic for diet and nutrition. Forgiveness, tolerance, understanding, love, avoiding association with unpleasant persons, all help your system to function scientifically in better working order.

4. If you can't help yourself to perform as well as you desire, then seek professional assistance.

These four rules will just about cover all the necessary information there is on all the writings about diet and nutrition.

Now, let's talk about salt, which so many experts say is not good for you. Our blood has salt content. Without salt in our blood we would all be very sick persons. If we do not take salt into our system the fluids in our system must attempt to manufacture our salt needs. We are adding a workload to our system, which can cause more serious difficulties. A little salt is needed, not a salt-free diet, unless we are in that very special class of persons who, on medical advice, should not take any salt.

Some of the same books that recommend no salt advise us to drink salty seawater or mineral water, where the salt content is high. Let's look at sea salt and saltwater. For example, do you want to drink water or eat salt that has the organisms of decayed fish and human waste? We would think not, yet this is what you are doing in drinking seawater or eating salt from the ocean after it has been dried and offered to you.

When salt is mined from the great salt flats of the world, it has for millions of years been in sunlight, dried, and washed with clean rainwater. For millions of years, salt has remained free from bacteria. When it is taken from mines deep in the earth, it is washed and pressure dried. Would you rather have this salt or the salt in the seas? Do you need salt? The cows that provide milk need salt; in fact, all animals need salt. Salt also acts as a purifier in your system against bacteria and disease. So, if you're

still in doubt, talk to your doctor after a physical examination and have a discussion about yourself. Salt adds flavor to your foods, it is a purifier, and the body manufactures it for your blood. Your body's glands produce salt for the water in the body and in your blood.

One of the outstanding authorities in the field of practical nutrition is a man who is not satisfied with the many publications on food and nutrition. He is a man who does not simply "look up" an answer from a book but will research for a factual answer. We have had discussions and personal conferences at our research laboratory with this man, Dr. William Ellis, now residing in Arlington, Texas. He has provided us with answers to questions that have stumped the experts. His research discovered that a tomato is not the excess-acid producer it was thought to be, but turned the stomach too alkaline, and his research uncovered the fact that excess-acid systems are principally due to excess hydrochloric acid, primarily from the body system and not from certain suspected foods.

The "big three" you hear about in food and nutrition, excepting cancer discussion, are arthritis, calciums, and iron. Arthritis, a leader in human complaints, has a host of advertised drugs and other remedies on the market, including, believe it or not, fluid injectible "gold."

In our research we have seen that arthritis of the most common type responds so adequately to lemon juice, sugar, and water, that it is a wonder this is not bottled as a "newfound drug." This is a natural remedy we have personally seen to be very effective. We know of many persons who will take twelve lemons, one quart of water, and one-quarter pound of sugar, squeeze the juice from the lemons, remove seeds and pulp, strain, add the water with sugar or brown sugar, but not honey, place in the refrigerator and drink it instead of water for two weeks or more, making more as needed. These persons then drink one-half as much water, tea, or coffee as they normally would drink and, instead, drink plenty of this natural lemon remedy.

Lemon juice is an acid. Arthritis, in many instances, is the build-up of calciums, which are alkalines. When natural acids are introduced into a system having too much alkaline, the acid acts to reduce the excess alkalines and the calciums by slowly working itself into the joints. In the instance of diabetes, no sugar should

be added. According to individual taste, sweeteners may be added. Honey is not recommended as it has other vital chemical reagents, although honey is otherwise a very wonderful food source.

There are important differences of opinion in the use of natural foods. For example, nearly all natural food adherents insist on natural iron from spinach and vegetables. What is so wrong about synthetic iron? Do you know that you would have to eat about 50 pounds of spinach to get 10 milligrams of pure iron into your system, about the amount that would cover the surface of a quarter coin? Actually, there is no such thing as synthetic iron. Man does not make iron. It is found in nature as iron ore and in plants, leaves, and vegetables. Due to insufficient amounts in vegetation, iron is reduced from ore by chemical means and added to food.

In olden days, when natural lemon juice was more frequently used—and honey—the pioneers would soak nails in water until they developed rust. Then, they would scrape off the red or dark iron and mix with their food. This iron oxide allowed more iron into the blood than could be consumed in 10 pounds of spinach. We do not recommend this method, nor any method to all of you, but this was one of the older ways of acquiring iron in the system, as most of the iron in spinach and vegetables will pass through the system with only about 10 percent of this intake remaining.

Why do most natural food followers worry about "synthetic" iron intake? Any biochemist will tell you that refined iron can be more quickly taken into the body system, including your blood, than that by consuming 10 to 50 pounds of spinach.

When we grow older we should become more wise, or do we? What we are to a great extent is due to what we eat. Thousands of health followers eat raw carrots, raw nuts, raw cabbage, and raw this and that, all noncooked foods. There are many health food experts that advise this procedure for a more natural and healthful life. A younger person's stomach and digestive system can take more of this punishment than older persons.

The more mature we grow, the more care we must have for our internal organs, digestion, and the food we eat, but not if we listen to the many authorities advising the consumption of raw, non-cooked foods.

Eating raw nuts and any kind of raw vegetables will add to the workload of our digestive system, and, as we mature, our digestive systems slows down. Eating raw foods will overburden our system,

taking years off our life, if half-starving is the way we want to go.

If you must eat raw nuts, raw this and that, take a lesson from the squirrel. A squirrel will chew, and chew, until the raw food is almost a paste before swallowing. Nuts, raw vegetables, and other noncooked foods are healthy for us, but are we carefully trained to properly chew and digest these materials? A tiny fragment of a nut, poorly chewed, can lodge in our system, and be harmful to our general health as well as our digestion.

Would a sensible mother feed her young child raw carrots, raw bits of cabbage, uncooked foods? The child would not receive enough nourishment to grow up strong and well, even with a strong stomach. Health, healing, and happiness can be yours in food and nutrition if you leave the wild food to the wild creatures of the forests. Salads, properly prepared; raw lettuce leaves and finely chopped carrots, presteamed, not boiled; olives; sweet peas, presteamed to soften—natural foods, yes, but prepared with sensibility for human beings, not for your favorite rabbit or squirrel. You will then look healthy, act healthy, and be healthy. One nutrition expert has likened the authors who suggest natural foods—which are not natural to the human system—as best defined by "taking the first three letters of the word nutrition and simply adding the letter S . . . these wild and woolly nature born writers would not have the strength to write such garbage if they followed their own advice."

Here is the best one: Thou shalt not eat meat! Human beings were designed biologically and chemically to eat meat. Meat has the basic needed nutrition all men, women, and children should have in their diet. If you just won't eat meat, then have your nutrition counselor recommend a substitute.

Most of the meat you purchase at your local store comes from cattle, cows, beef, pigs, chickens, and turkeys that are fed with super growth hormones to speed up their growth. A number of these hormones have produced cancer in animal tests. If this is a danger to your health, you can be sure it will not soon be eliminated with the multimillion dollar crash programs for producing foods.

Florida, where the authors live, has the highest rising rate of cancer cases in the United States. Reasons may well be feed enforced with chemicals to produce more food, the water, and the weather. Florida's milk-producing cattle, the condition of the dairies and packing houses, and increases in the use of fertilizers

in hot, humid weather at low altitudes of elevation are considerations. Combine these factors with the influx of older citizens into the state. When a person spends most of his or her life in a cool and less humid climate, then moves to a hot, wet, damp, low altitude climate, is there any wonder why aging hastens or cancer is evident? Heat is disorder and cold is order, as biologists and biochemists will tell you. Consider well the effect on your health before moving to Florida, Alabama, Tennessee, or Louisiana from a cooler, less erratic climate. While "northerners" come south, the "southerners" are looking for their mountain home.

Health, healing, and happiness are yours for the asking if you use your common sense in acquiring nourishment and stay away from the big, money-making fads. Why do you have to eat your meals according to the clock—7:00 A.M. to 9:00 A.M., 12:00 noon to 1:00 P.M., 5:00 P.M. to 7:00 P.M.? Try to arrange your eating habits the best you can with family, job, and life-style so that you can have your meals when you feel hungry, not because it's "time" for food. Don't live to eat food—eat food to live. Look within yourself and you will find your system helping you to decide what you can and cannot eat. Moderation is always sensible with any foods, and you can enjoy nourishment. The human system welcomes nourishment for replenishing energy. You need consultation if you cannot adapt yourself to enjoy nourishment.

During our many years in studying the natural life and in working with animals, there is no doubt in our opinion that human beings can learn about their own food and nutrition by observing how the animals handle their food. The little monkey will take a fresh ear of corn or a grape, and before placing the corn in his mouth, he will bite off the end of a corn kernel, suck out the corn meat, and throw the kernel away. He knows that the covering of a single kernel of corn will not digest easily. He will not eat the skin of a grape, but will remove it and the seed and eat only the meat within the grape. When he eats worms or insects, he will remove parts to acquire only the meat. You may be surprised to learn that earthworms and other insects are gaining popularity for human consumption as the earthworm, especially, is very high in protein content.

We, as human beings, have not given proper attention to knowledge we can obtain from animals to assist our own life-style. We seem surprised when the studies now frequently published

show different kinds of animals are not only more intelligent than we formerly considered but they are also capable of learning more human attributes than we had believed.

The skin on grapes and their seeds do not digest well in human stomachs, nor does the skin on corn, beans, fruits, or most other vegetables, and we must also include the skin of many, if not all, of the meats we consume daily. Yes, you should seriously consider removing the skin of chickens, wild birds, fowl, turkeys, in fact, the skin of any animal before eating the meat.

Another habit man has developed is eating certain inner organs of animals, including livers and kidneys, and eyes, ears, and tongues. It is highly suspect, if not substantiated by test reports you might accept, that these parts of animals, although subjected to various cooking methods, still carry organisms and chemicals in their basic protein fluids. If this is true, we have more reason to suspect the developing in humans, from the animal parts, diseases that we dread, as well as ailments to which we are unaccustomed. When eating meat, it is the inner food of the meat substance that is most nourishing, and not the skin or organ parts. In the same manner, it is better for you to consume the inner flesh of fruits and vegetables.

You would not think of eating scales from the outside of a fish, and, perhaps, as is practiced in some cultures, you would not leave the head of a fish intact to cook and consume for your nourishment. The head of a fish, if not cooked very carefully, very professionally, has segments not fit for human consumption and could also act to affect adversely the other meat of the fish.

You are an individual, scientifically, biologically, and in many other ways beneficial to your health. There can be certain rules to follow for your health, healing, and happiness in food and nutrition. How effective you will be in nourishing your food replenishment for better living depends upon how well you discover—and conscientiously apply—that which you learn about your individual self.

VII

LIVING WITH RADIATION DANGERS

There are unseen dangers surrounding you in your modern home which have alarmed the Russian scientists, yet have little or no effect on scientists in our own country. We depend upon professed scientific persons for guidance and information on the dangers of new electronic gadgets and kitchen tools in our homes today, as we depend upon care and caution from our scientific leaders in the construction and safeguards of large energy installations. Due to a lack of understanding in applying basic laws of physics and Nature, such guidance, information, care, and caution are not adequate for our health.

We have few scientists in our nation today who have the knowledge or the background to appraise the dangers of home appliances and food preparing equipment that is flooding the American market by modern, high-pressure sales, advertising, and distribution organizations.

In the higher energy installations already constructed, and in those projects planned and underway, information about safety for citizens is vague, confusing, and often incorrect. Arrogance and downright ignorance are persistent in conjunction with sincere, dedicated men, whose typical problem results from, "If it's not in the book, it's no good." What book said it, what expert told you, what college or university is the rule rather than the proper criteria—does it work better in science and is it more beneficial to the well-being of the citizen?

IN THE HOME

Possibly the most dangerous of the new kitchen wonders are the microwave ovens. They are deadly if not operated properly. This information is usually in very small type in the manufacturer's instruction sheet, if you can find it.

Government experts are busy writing new laws on everything

governing your life—what you eat and drink, what you wear, and what chemicals and drugs you can use—rules and regulations so numerous that many are forgotten after they are established. The American system is becoming more similar to the French government administration basically adopted from the Napoleonic Code, where responsibility cannot be fixed on an individual in government. Where are these government experts, these wonders of our modern age? Spokesmen are profusely available, but who are the parties responsible for these rules and regulations?

If you write to a government-sponsored scientific organization, you may receive the following answer, "We can't tell you who they are as they are the government's brain bank." All we can say to the responses we have received from our inquiries is it would appear our brain bank is bankrupt. The brain bank has lost something; maybe it never had it in the first place. What it is, we don't know, and we doubt if the government is about to tell us if they know. This secrecy in preserving sources of scientific rules and regulations enacted by administration agencies and our Congress is not unique to government. It also exists in the large electronic and drug interests that daily affect your safety and welfare.

The Soviet Union has issued a number of reports on the dangers of microwaves to human health and welfare. The Soviet Union knows so much about microwaves that they are used in that nation's cold war against American embassies, and American scientists are still confused on this scientific application by the Russians. Russian scientific reports indicate safety standards of microwaves many times lower than is allowed by the American brain bank for permissible radiations from microwaves.

In our book, *Magnetism and Its Effects on the Living System* (Exposition Press, 1974), we attempted to call to the attention of those responsible for the welfare of our people the dangers of pulsing electromagnetic energies. We have published the danger existing, not only in the range of frequencies by pulsing electromagnetic waves, such as in a microwave oven, but also in the transmission of pulsing electromagnetic waves and resulting energies. Our advice has not been heeded, and the giant electronic interests are having a field day at your possible expense.

New investigations into microwaves have been initiated by our government. Some results are published but the investigations are continuing. The findings reported, and future findings to be re-

ported, are predictable to anyone who follows these government-funded research undertakings. As with the reports on saccharin and other sweeteners, published results on microwave hazards indicate that if you radiate enough microwaves down the throats of rats and mice they will show first-generation effects, but if the research is conducted properly, there will appear mutations of organic organs and genetic patterns in the second, third, and further generations from these test animals. Since the researchers are using the old book-worn theories as basic science law for their investigations, they will not be as successful as they could be if our published discoveries were applied to their research. Also, rodents, rats, mice, rabbits, cats, and dogs are NOT human beings. The results of overexposure to these dangerous electromagnetic energies will more readily "appear" in further generations of human beings. Dangerous effects will show in the first generation if basic laws of physics and nature are followed, knowing specific symptoms to observe. This does not seem to be the present government program.

Considering the lack of knowledge of our scientific brain bank, the advertising and pressure power of the industrial giants and manufacturing interests, and the current safety standards—far too high—of the environmental protective agencies, we have a responsibility to you. We suggest you simply not buy any microwave gadget, supersonic mixer, or other product we have continually warned the public and scientific community against through information in our publications. If you must purchase these products, then we suggest you use them with the utmost caution.

Any food mixer, food fluid extractor, juicer, or juice extractor which has its electric motor against, on top, or directly underneath the food will transmit powerful alternating and electromagnetic pulsing energy into and through the juices, fluids, and foods. This will neutralize some of the nutrients in these materials, because alternating currents and voltages help to dissolve many of the food constants and values. Further, these alternating energies act to change food, fluids, vegetable and fruit juices, as well as chopped, grated, and blended foods. The changes in materials will continue after the equipment is shut off, and the materials are placed in the refrigerator, cooler, or storage container.

Consider that over one hundred years ago the eminent scientist Faraday established guidelines for lines of force in energy research.

From his theory, which has been proved incorrect, most, if not all, of our present mathematics and accepted science understandings on frequencies, vibrations, and waves of energy have evolved. You can make kitchen items that do an intended job, you can build engines that perform magnificently, and you can explode bigger and more devastating bombs. This does not mean you understand the science of what you are doing.

The ever-apparent fault in government research, as in the research of the large manufacturing and electronic interests, is the lack of understanding in basic fundamental research. We have seen this expressed many times from the problems we are asked to solve by some of these powerful interests. The laws and regulations enacted by our Congress and government administrative agencies are also evidence of this lack of comprehension. We still feel that the basic ignorance in a number of these difficulties is that of not properly understanding and applying the separate and distinct energies of magnetism. In the use of kitchen apparatus there seems to be no apparent concern about nor basic understanding of the radiations from simple motors used for these devices.

The environmental guidelines of the government agencies are incorrect and misleading in showing a lack of understanding about electromagnetic energies. In respect to the importance of electromagnetic energies for military and scientific competence between nations, as well as the general welfare of citizens in their environments, the treatises published by U.S. agencies are frightening in their absence of basic scientific facts.

Special reference is here made for explanatory purposes to EPA publication 520/2-76-008, entitled *An Examination of Electric Fields Under EHV Overhead Power Transmission Lines*, April 1977; the publication by the Office of Radiation Programs, U.S. Environmental Agency, ORP/EAD-77-2, entitled *An Investigation of Broadcast Intensities at Mount Wilson, California*, April 1977; and *Environmental Health Perspectives*, vol. 20, p. 143, October 1977. Magnetic flux (energy) from a kitchen mixer, near the handle, is given at 2 gauss, and from an electric drill, near the handle, at 1 gauss. This information is, frankly, ridiculous.

Our research indicates 300 to 500 alternating (AC) gauss for these mentioned items, including radio frequency waves, which the Environmental Protection Agency does not claim. The radio frequency waves are pulsing energy of 60 cycles per second

(CPS) up to 150,000,000 CPS, or more. The Environmental Protection Agency does not know, or will not acknowledge, these facts. Scientific studies in foreign countries verifying these dangers are ignored, such as the findings from pulsating generators on factory workers published by the Institute of Industrial Hygiene and Occupational Disease, Praba, Srobarova, Czechoslovakia, mentioned in *Science News* (vol. 96, October 4, 1969).

High AC magnetic energy and radio frequency waves pass directly through the body of the electric drill operator and, over a prolonged period of time, will cause serious bacteriological changes. It is misleading and dangerous for the consumer to believe such small amounts of energy come from these well-used appliances. What is the problem in the government not identifying these potential hazards? We submit the following hypotheses:

1. They are not distinguishing between DC and AC as their measurements indicate DC readings, whereas the AC radiations are the most dangerous.

- a. An electric drill was placed against the stomach of a laboratory rat for 30 minutes once a day for 30 days. After the death of the rat, examination showed the prostate gland had dissolved, and this was only one of the effects from the deadly AC radiation of an electric drill. The hand of a human being would not have the energy saturation to the degree of the laboratory rat, but such a simple experiment as described does show the danger to human beings.

2. The charts and written information of the EPA do not reflect the vast range of effects from radio frequency energy nor AC pulsing electromagnetic energy present from the operation of such instruments.

3. The government agencies have ignored other foreign work in the field that establishes the danger of these energies, such as the Institute in Czechoslovakia.

4. Possibly the instruments used to measure these energies are not the proper instruments to measure dangerous energy emanations. The testing instruments that should be used are static field analysis equipment and radio frequency detection equipment that operate within the radio frequency range, as opposed to instruments for the detection of atomic radiations.

5. There is a lack of understanding about applying the divisible energies of magnetism, in relation to other energy forms.

We suggest that the government agencies reconsider their findings and investigate more thoroughly the dangerous effects of pulsing AC electromagnetic energies, including high frequency radio waves, on human beings, and in our society such waves are not confined to electric drills and kitchen mixers.

The food disposal unit in your kitchen is physically dangerous. Caution is necessary to avoid mutilation of the fingers, especially of children, or injury from flying particles ejected in operation. The greater danger is the AC, alternating current, radiation pulsing more energy than your food mixer. Can your food disposal unit affect foods placed near the unit when in operation? You should not have foods you will consume on a shelf or working table near the food disposal unit. The pulsing electromagnetic energies generated by the unit travel unseen in electromagnetic wave vibrations in space and could damage or alter the values of these foods.

When any food has been juiced, squeezed, pressed, blended, or fluid extracted, the nutritional value is less than if left intact. Nutrients of foods are held in the fibrous cells of vegetables and fruits protected by their natural composition. When air reaches these inside fibers, decomposition is hastened. The longer such foods are exposed to air, the less nutrient value remains. An example of such a natural food would be wheat grass juice. The tender young wheat grass shoots are full of natural nourishment, but as soon as they are pressed or blended to extract their healthful juice the air reaches the fluids and loss of nutrient value occurs. Add this to the loss of nutrient experienced with the pulsing alternating energies of a food blender motor and you have aggravated decomposition.

When you select an electrically powered juicer or blender, try to find one with the motor to the side, away from the food bowl or container. Have a jar or other airtight container available to place the foods or fluids into after extracting or blending. Do not delay in placing the finished materials into a refrigerator or cooling device. The heat in the foods caused by the pulsing energies should not be allowed to remain while hastening decomposition. It is far safer in our opinion to use hand-press methods, hand-operated

blenders and juicers, without adding heat and pulsing electromagnetic energies to your foods for this type of food preparation.

Use your own common sense in opposition to the experts who say AC energies are too low in these kitchen apparatus to cause difficulties. The experts also say that microwave levels are too low for danger, and they go on investigating, applying laws of physics proved inaccurate.

Another area of importance for your well-being in your kitchen has to do with your lighting system. Our research into the effects of light on animals, human beings, and their natural environment is still continuing, although it started with our research into magnetism many years ago. Dr. John Ott is perhaps more responsible than any man for the public awareness literature on how different colors and lighting systems affect your health. His book, *Health and Light* (Devin-Adair, 1973), has wide circulation in subsequent paperback editions. In our communications with Dr. Ott, as with other scientists, our findings in this research have been supported.

Fluorescent lights radiate many forms of energies, including ultraviolet radiations, X-ray forms and AC electromagnetic energies. When these types are ignited, the gas flows, producing AC voltages and currents. Dr. Ott found, as we had discovered, that weak X rays and ultraviolet rays are generated by these white, daylight, or tonelight fluorescent lamps. We recommend NO fluorescent lamps in your kitchen where you prepare your foods since the possibility is strong that they adversely affect your foods. Also, if you work under these types of radiating lamps, indications are that they affect your physical well-being, tending to cause depressed feelings.

Of interest in our research are our findings on the effects of color in light on biological life. Here, you can apply common sense for your health by considering how colors affect growing plants, which are biological living systems. Red lights promote growth; green lights slow and retard growth. Yellows and blues are moderators. In this sense moderate means the plants do not grow as well as in pink light, red light, or natural sunlight. Dr. Ott and other researchers believe from their findings that persons working under pink or red light will be overly sensitive and less composed, while incandescent white light will lessen these reactions in human beings.

We find a comparison between red light and the South pole energy of a magnet. In fact, it has become our laboratory policy

in identifying magnets to paint South poles of magnets with red paint. In a similar comparison we paint North poles of laboratory magnets with green paint. The South pole of a magnet will promote seed or plant growth, while the North pole magnetic energy will arrest growth. There are notable exceptions in our agricultural research; most notable is corn, which responds stronger in growth to the North magnetic energies in the treatment of seeds with separate magnetic energies. Our patent granted on this process by the U.S. Patent Office, and now filed and accepted in many foreign countries, has this exception in our new method of using separate magnetic energies to promote agricultural yield and nutrient increases.

Other exceptions, including the growing of certain flowering plants, we believe may be due to the historical environmental and genetic beginning of the plant. For example, our research would indicate that corn was once a product produced below the surface of the earth, such as peanuts are today. We have emphasized throughout our research on biological systems that human beings, as well as plants and animal life, although similar in form, are each indivisibly different. The conclusion remains that what affects plants and natural growing life does affect human beings, their emotions, and their physical well-being.

Allow nature to aid you in your kitchen by placing a small, growing plant in your kitchen area. The plant can be a natural alarm system in warning you of improper lighting, air, or dangerous energies for the woman who spends most of her time in the kitchen area. In the child's room, or with the man or woman in the office, use a growing plant to warn of impending danger.

If indoor plants take on an unhealthy appearance, and it is not the result of too much or too little fertilizer and water, there is a reason that could affect your health. Your growing plants and vegetables, outside as well as within your home, should be a guide for more healthful living. The food you consume, in one manner or another, is the result of growing, natural vegetation, plants, fruits, vines, trees, bushes, and herbs. You are a part of your environment in this sense, so be open-minded to the knowledge these growing, natural creations can impart to you.

There is need for your system to receive the benefits from sunlight. It is one matter to overexpose yourself to sunlight; it is another to receive the quantity of natural light your system re-

quires. Moderation is often the guide for common sense as well as science. Without natural light your plants—and you—may die. Allow sunlight to enter your home, if only indirectly through your windows, and you and your plants will be more healthy. Light is life and life is light. Don't shut out of your life this important gift of nature, natural light.

IN THE ENVIRONMENT

While England and other countries prefer to install high tension wires beneath the ground, in the United States we place the great majority of these dangerous sources of radiation in the open air. Eventually, they will cause a change in the protective ozone layers that surround the earth. High tension wires produce pulsing alternating energy, which can cause headaches, loss of memory and hearing, decrease in sexual potency, and changes in the menstrual cycle, with the accompanying psychological results. Although still under investigation by a number of governmental agencies, evidence of substantial concern for these dangers has been previously published in *Science News* (vol. 105, June 29, 1974, p. 418; vol. 96, October 4, 1969, p. 276), reporting the results of pulsating generators on workers in Praha, Srobarova, Czechoslovakia.

Pulsating alternating current (AC) electromagnetic energy emanates from, to name a few, broadcasting stations, television stations, shortwave stations, intercontinental communication systems, radio telephones, power lines, and, generally, anything with an electric motor, including microwave ovens and radar antennas. These energies are going through your body when you are awake and asleep. Your system never has a moment's rest from the constant bombardment of these signals. We have lost the natural life. Our present mode of living has destroyed our identification with a natural life.

We will find in the near future that, unless this vast proliferation of energies is controlled, there will be serious consequences for all human beings. Indications are now evident that our genetic structure may be undergoing changes that, although not readily apparent, will appear in future generations. And it is not unforeseeable that unscrupulous persons could manipulate very high energy electromagnetic fields into the atmosphere to actually cause a change in the weather. What is more frightening is the possibility

that these energies can be directed to an area or nation to reduce the growth and production of food supplies by controlled climatic changes. This area of the world would then be under the dependence of the persons or nation exercising these energies.

The woman's conventional hair drier produces energy from 60 CPS (cycles per second) to 200 million CPS. Imagine these amounts of energies pulsing through your head. Are these energies giving you a false sense of stimulation? Are they causing premature aging? These are pulsing AC energies directly into your brain and throughout your entire system.

You leave your kitchen to go to the supermarket. You get into your car and turn on the ignition. The motor starts, the spark plugs are firing intense blue electromagnetic sparks. The energy of each spark plug is many thousands of times stronger than the energy from a hair drier. The energy from your car's spark plugs fills the inside of your car, when the car motor is operating, constantly bombarding you with electromagnetic energies of AC pulsing energy.

You arrive at the supermarket and leave your car, entering the supermarket under the most intense radiation of hundreds of fluorescent lamps containing low emissions of X-ray and ultraviolet radiation, which are combined with AC electromagnetic pulsing energy. Walking over to one of the large refrigerator display counters, you are radiated by very strong AC electromagnetic pulsing energy from the motors operating the refrigerators. Perhaps you go to a dispenser for a sandwich, cold drink, or cup of coffee, insert a coin that immediately activates a motor producing AC electromagnetic pulsing energy, that saturates not only you, but your sandwich, cup of coffee, or cold drink.

You finish your shopping and leave the supermarket in your saturated AC electromagnetic pulsing energy enclosure. As your car travels on the pavement static electricity is built up and, if a dry day in weather, a toll attendant may receive a shock from your touch, as you would transmit the additional electromagnetic energy from the pavement to your car and through you to the toll collector. Your car is grounded, protecting you from lightning striking your car. The buildup of static electricity is a different matter. You have probably noticed oil trucks dragging a chain on the roadway to ground out static charges.

When you arrive home, perhaps you turn on a small television

set near you in the kitchen, or, you turn on your vacuum cleaner, again saturating yourself with AC electromagnetic pulsing energy. Anything in your environment and in your home that functions from the usual 118-volt, 60 cycles produces AC electromagnetic pulsing energy. This includes your TV set, electric razor, electric toothbrush, your kitchen toaster, icebox, and your microwave oven with its additional microwave dangers.

If you escape for a day in your motor boat, your golfing cart, your motorcycle, or use an electric blanket, you are saturated with AC electromagnetic pulsing energy. Buses, airplanes, and trains saturate you with AC electromagnetic pulsing energy.

We have mentioned in previous publications the South pole direct energy in your telephone receiver, but we now mention what happens to your energy system, which you are trying to balance in function, when you hear a voice on the telephone. The voice tone is direct current flowing around a magnet that is sending direct pulsing energy into your brain. The sound frequency of the voice acts to change the DC (direct current) into pulses of AC. Our research, verified independently, indicates that AC electromagnetic pulsing energy can be detrimental to your health.

In Vietnam, the Western allies attempted research into the control of weather. Weather and climate control have always been a factor in any military action and have influenced the outcome of wars. As history tells us clearly, war is not limited to military operations and, by its definition, is "any state of violent opposition or contest, hostility, strife" (*Webster's Unabridged Dictionary*).

We have seen drastic changes in the world climate conditions. Theories are rampant, from the approaching ice age to nuclear explosions, affecting these changes. Long droughts, excessive precipitation, snow storms, and ice conditions have been unusual in relation to reasonable cycles of climate behavior.

Tremendous surges of electromagnetic energy, millions and millions of watts, have been pulsed into our atmosphere. We believe, from the evidence available and our knowledge of this science, that the upper strata atmospheric winds that control our weather have been changed. All during the summer months of 1977, these enormous bursts of pulsing electromagnetic energy interfered with communications throughout the world. The US government complained to the Russian government.

It is our additional belief, from our knowledge of the science

and other facts presented, that the Russians may have discovered a way to pulse electromagnetic high intensity energy into the upper atmosphere. We believe it will be verified that the Russians are actively pursuing this control of atmospheric weather through their research into pulsing electromagnetic energy.

NUCLEAR ENERGY INSTALLATIONS

Consider the hypocrisy of storing atomic waste deep in salt deposits or ocean waters in order to safeguard humanity. Where is the proper concern for the future of humanity on the part of our government and big money interests, and the scientists who support this program? Who are they to arbitrarily state that Nature will not cause an upheaval, earthquake, or other natural disaster, releasing this killing radiation. And the scientific experts cannot unequivocally state with finality that leaks of radiation will not occur without an assisting natural catastrophe. Under these circumstances, why is the program continued? Is it because of a bureaucratic jungle so entwined with its own mistakes that the woods can't be seen for the trees? Is it ignorance, greed, selfishness, ego, arrogance? We don't know the answer, nor do we believe the persons directly involved have the answer. Why, when a project does not work satisfactorily for the future of humanity, are millions, even billions, of dollars continuously poured into the project. Perhaps we don't like to admit mistakes, or we trust in some blind fate that will solve all our problems regardless of our free-will actions.

The science applied to nuclear energy installations and to methods of storing atomic waste is inaccurate. It is built upon a lack of applying the separate energies of magnetism to nuclear energy forms and to matter existing in nuclear waste. It is not unforeseeable to the authors that a proper understanding and application of the separate energies of magnetism may solve the major problems of radiation and explosive dangers of nuclear energy installations. Or, have we decided to "chance it," come what may? As expressed by Dr. Andrew McLan, Director of Britain's National Radiological Projection Board (NRPB), "Limits on radiation dose are now regarded as longstops instead of starting points in a protective strategy. The new approach is summed up in two new huzz words—justification and optimization. Justification means that no source of exposure should be unjustified in

relation to its benefits or those of any available alternative" (*New Scientist*, 20 October 1977, p. 132). Optimization simply means hoping the future will not prove the approach incorrect. This is, in other words that seem more exact, taking a chance that humanity will not be destroyed.

The authors believe that the possibility of neutralizing atomic material in downgrading the radiation is plausible where there would be no need for storage. If scientists would apply the new knowledge we have published, this may be a solution to neutralizing atomic waste.

In the construction of these large nuclear energy installations, one of the principal dangers is the control of the reactor. The reactor is an atomic pile that produces heat and boils water, to produce energy as required. The atomic pile is purified uranium (fuel) in pellet form inside specially constructed tubes placed in the core of the reactor. Plutonium rods are placed against the tubes of purified uranium. When the rods are raised away from the purified uranium core, the interaction starts to produce heat, which boils water. As the rods are raised, the temperature increases, and, as the rods are lowered, the temperature decreases. What you have is a controlled atomic bomb.

A "safe atomic" system keeps the reactor from "running away," producing more heat than the reactor can take. If this did occur, you would have nuclear fusion, with the accompanying explosion and deadly radiation. And, it has been expressed by competent authority that the explosion occurring downward into the earth can reach the molten lava within the earth with results occurring that could foreseeably destroy earth civilization. This is why the shutdown safety procedures are so important, as are the radiation "leaks" that may occur from usual operation of the system.

Water flowing around a reactor becomes radioactive, so if any part of the piping system develops a leak, you have steam and deadly contaminants. There is no apparent control over possible cracks in the pipes that would release radioactive water except warning devices and monitors indicating radioactivity has increased dangerously, which is noticed during, or after, deadly radiation is occurring.

There is a shortage of plutonium making these large energy installations obsolete by the twenty-first century, and all the monies, time, and energy will have gone to naught. The fast-breeder reactor plant can produce its own fuel of plutonium, thus not having to

replace this short supply material. Yet a small quantity of plutonium in a city reservoir could contaminate the health of millions of persons. There is approximately a twenty-year supply of uranium available whereas the fast breeder, with uranium as a fuel, could produce plutonium without using enormous supplies of uranium.

The present use, and planned use, of plutonium and nonfast-breeder reactors is neither economical nor satisfactory for future supply of energy, and the fast-breeder reactor has the same dangers of radiation, explosion, and atomic waste. The fast-breeder reactor can be extremely deadly in producing its own plutonium, which is the most deadly form of energy known to man.

OUR FUTURE IN ENERGY

We believe the future of economical energy supply is in the research and development of hydrogen as a safe, nonvolatile fuel. Hydrogen is an endless source of energy. The knowledge available on hydrogen, properly applied and developed, could make this fuel as safe, if not safer, than gasoline.

To further emphasize the situation now existing with large energy installations, we quote a number of facts found by the Union of Concerned Scientists (1208 Massachusetts Avenue, Cambridge, Massachusetts), an organization that was the first independent group of scientists to carry out a major review of the safety of nuclear plants.

"A typical nuclear power plant contains an amount of radioactive material equal to the radioactive fallout from thousands of Hiroshima-size weapons. The fear is not that these plants will explode like an atomic bomb. But much of this radioactive material is gaseous and could easily be carried by the wind for many miles if accidentally released. And it *can* be accidentally released.

"One accident—from one plant—could kill as many as 45,000 people, cause \$17 billion in property damage, and contaminate an area the size of Pennsylvania. In the next twenty-five years, the nuclear industry wishes to construct almost 1,000 such plants.

"The basic safety system in nuclear plants designed to prevent such accidents—known as the Emergency Core Cooling System (ECCS)—has never actually been tested under realistic accident conditions. And when it was tested on small-scale laboratory models, this system consistently failed to function properly.

"The history of the sixty-three nuclear plants now operating in

the United States shows many malfunctions of major equipment, operator errors, and design defects, as well as continuing evidence of shoddy construction practices such as poor welding, upside-down installation of critical components, etc.

"No safe way has yet been demonstrated to dispose of the millions of gallons of lethal nuclear wastes. These radioactive wastes, created when spent fuel is removed from the reactors, are among the most dangerous cancer-causing substances known to man. Radioactive wastes remain harmful for centuries—a grim legacy from present nuclear plants to future generations.

"Present safeguards are inadequate to prevent plutonium (a by-product of commercial reactors that can be used in making atomic bombs) from being hijacked by terrorists or others who wish to sabotage or blackmail the United States government.

"The nuclear industry looks forward to ever-increasing sales of reactors abroad. Industry pressure to start the move toward plutonium as a fuel enhances present fears that these reactors are the stepping-stones for nuclear weapons. If unchecked, the proliferation of nuclear weapons will make the world an increasingly dangerous place."

In our research with hydrogen we have discovered it can be processed as less critical and safer to handle through the use of electromagnetic treatment, and without chemicals or special process equipment now in development. For example, one of the present concepts utilizing hydrogen fuel involves a 2,000 pound tank in the operation of a small busmobile. With our system, using magnetic fields, the hydrogen could be made less critical and safer as a never-ending, unlimited source of fuel. Our tank in a small busmobile would be a conventional, moderate-sized steel tank. Here again we see the lack of applying the basic physics of the separate energies of magnetism.

Still, we believe our system is plausible. By applying separate energies of magnetism to the treatment of hydrogen and other types of fuel, the combustion or fuel burn will increase, thereby reducing the present need for the consumption of oil and other fuels.

The following information from our research findings is submitted for the reader to have a more thorough understanding as to how the separate and divisible energies of magnetism can conserve and improve fuel energies. This is material basic to our research and included in our patents, and it should be in every elementary

textbook on energy and physics. Most of this information, you may observe, will not be found in existing books and treatises on the subject.

EXAMPLE I:

To demonstrate one effect of a North unipolar magnetic field on water, 500 ccs of common tap water at 65-75°F was placed in a glass beaker such that the water was exposed only to the energies of the North pole field. The measurable field at the beaker was adjusted to 1000 gauss. Conventional techniques were used to determine the surface tension, in dynes, of a control sample of the tap water before exposure. Following exposure for a specified period, the surface tension, in dynes, was again determined. This test was repeated for a number of water samples for different exposure periods. Table I sets forth the resulting surface tension, in dynes, above or below the measured control sample as a function of exposure time. Inasmuch as absolute values of surface tension will vary, depending upon variables such as geography and water source, it is only the difference in surface tension between exposed and unexposed water which is believed to be significant.

TABLE I
1000 GAUSS—NORTH POLE FIELD

<i>Exposure Time Minutes</i>	<i>Surface Tension (dynes) Above (+) or Below (-) Control</i>
$\frac{1}{4}$	+0.5
1	+1.0
2	+1.5
3	+3.0
4	+4.0
5	+3.5
30	+3.6
60 (1 hour)	+3.6
600 (10 hours)	+3.6
1440 (24 hours)	+3.6

It is apparent from these tests that exposure of water to the North pole field of a magnet increases the surface tension of the water. Maximum effect of the North magnetic field appears to be attained in about three to four minutes. Increased exposure does not appear to increase the effect on the surface tension of water.

EXAMPLE II:

The tests of Example I were repeated except that plastic beakers were used and the polarity of the electromagnet was reversed to expose the samples to 1000 gauss of South unipolar field energies. The same surface tension determinations were made after each exposure and compared with the control sample. Table II sets forth the results.

TABLE II
1000 GAUSS—SOUTH POLE FIELD

Exposure Time Minutes	Surface Tension (dynes) Above (+) or Below (-) Control
½	-0.4
1	-1.2
2	-1.7
3	-3.5
4	-4.0
5	-4.2
30	-3.7
60 (1 hour)	-4.3
600 (10 hours)	-4.0
1440 (24 hours)	-4.3

Exposure of water to South pole magnetic fields decreases surface tension. Maximum effect of the South magnetic field appears to be attained in about three to five minutes. Increased exposure time does not appear to significantly increase the effect on the surface tension of water.

EXAMPLE III:

Apparatus was assembled using a conventional electromagnet and a standard ferrous metal water pipe having ½ inch ID, and ¾ inch OD. The poles of the magnet had a field strength of 1000 gauss, and one of the poles was placed in contact with the conduit. Magnetometer and gaussmeter measurements confirmed that the applied magnetic field was conducted in both directions along the conduit and was detectable, albeit weaker with increasing distance from the source, many feet away from the point at which the source was applied.

Water, having a previously determined surface tension, was permitted to flow under pressure through the conduit, including the portions thereof carrying the applied magnetic field. The time to traverse the magnetic field was measured, as was the surface tension of the water exiting the magnetic field. The test was run using both North and South pole fields for application to the flowing water. In addition the tests were repeated using a conventional bar magnet in lieu of an electromagnet. The results in all cases substantially corresponded to those shown in Tables I and II, indicating that the magnetic field effect for a given field strength and time of exposure is unaffected by whether or not the fluid is stationary or flowing or by the type of magnetic field source.

EXAMPLE IV:

Samples of water which have been exposed to the North magnetic pole field and to the South magnetic pole field for sufficient time, as can be determined from Tables I and II, to achieve approximately maximum surface tension changes of about +4.0 for North pole exposed water and -4.0 for South pole exposed water was collected and used to germinate seeds and as the water source for plants grown in a test plot. Germination time, rate of plant growth, and various plant characteristics were observed and noted during the tests.

It was concluded that seeds and plants treated with water subjected to South pole field energies fared best, the effect of the water being to reduce germination times and to improve the growth and development characteristics of the plants. This is believed due to the decreased surface tension of the water, permitting more rapid penetration and absorption. On the other hand, seeds and plants treated with North pole field exposed water exhibited

decreased germination and growth rates and seemed generally stunted by the water treatment.

EXAMPLE V:

Common tap water was collected and the free dissolved nitrogen content thereof determined to be 1.2 ppm. The tap water was permitted to flow in a conduit at the rate of 5 gallons per minute through an applied unipolar magnetic field of 1000 gauss. The exposure time in traversing the field was 0.1 seconds. In a first test, the applied field was a North pole field. In a second test, the applied field was a South pole field. Following each test, the free dissolved nitrogen concentration in the tap water was determined with the following results.

<i>Applied Pole</i>	<i>Free Dissolved Nitrogen (ppm)</i>
North	0.64
South	0.57

EXAMPLE VI:

To determine whether alternating exposure to North and South unipolar fields affected the water chemistry any differently, the test of Example V was repeated using an electromagnet connected to a 60-cycle, 110-volt AC source. The free dissolved nitrogen concentration of the tap water exposed to this field for 0.1 seconds was determined to be 0.32 ppm.

All of the many effects of exposing water and other fluid-type materials to applied unipolar North or South pole fields cannot, of course, be catalogued herein. However, in addition to the effects herein before discussed, it is particularly noteworthy that chilled water which has been North pole exposed has been found to provide fuel economies when injected, preferably as a fine spray, into the combustion chambers of fuel-combusting devices, such as into the cylinders of internal combustion engines. Such a use for water is, of course, not new. However, exposure of the water to the North magnetic pole to achieve more efficient combustion than is attainable with magnetically untreated water used for the same purpose has not heretofore been suggested. Another noteworthy effect is that South pole exposed steam exhibits improved properties which make its use more beneficial than untreated steam in a number of applications. Example VII illustrates one such instance.

EXAMPLE VII:

An electromagnetic unipolar magnetic South pole source was installed surrounding a steam line and the source was powered by applied 60 cps AC. Generally, the installation was similar to an apparatus wherein the steam was first exposed to a North pole field and then to a South pole field before exiting the magnetic fields. The steam was recycled to a firebox, where it was used in conventional manner to increase combustion efficiency. Normally, the efficiency of a firebox is a function of fuel and oxygen exposure to the flame and of the extent of mixing attainable. In conventional systems, mixing to the extent of flame spinning 1 or 2 turns is considered good, even with steam recycling. The South pole source was positioned upstream of the firebox to expose the steam just prior to injection into the firebox. Using magnetically exposed steam for recycling, 20 turns in the firebox was achieved, evidencing about 13 times better mixing than with untreated steam. The attainment of better combustion in the firebox as a result of using South pole magnetically treated steam was evidenced by less smoke, a better modulated fuel demand, and a more rapid increase in steam pressure to the desired level.

In still another unique application, magnetically treated liquids, such as water, have been found to effectively contribute to the prevention, loosening, and removal of crust and scale from the inner surfaces of metal, e.g., iron, copper, conduits, boilers, tanks, sewage systems, and the like. South pole exposed liquids, which have an expanding quality, appear to be most useful. It is believed that exposure to South pole magnetic fields decreases the tendency of water to deposit its minerals (e.g., calcium) and may increase the solubility of minerals in the water. In addition, the application of alternating North and South unipolar magnetic fields to fluids flowing through scaled conduits, which has net effect most similar to a South pole field, as has been described generally in connection with Example VI, has been found to be particularly effective in reducing crust and scale build up on conduit walls.

EXAMPLE VIII:

In one instance, an operating cupola was cooled by passing cooling water over a heat transfer surface associated with the cupola. The prior experience was that operations had to be shut down and the scale buildup cleaned from the heat transfer surfaces

every two weeks in order to maintain an acceptably efficient level of heat transfer. A South pole magnetic source, similar to the one used in Example VII, was installed on the cooling-water-fed conduit at a point upstream of the heat exchange surface to treat the cooling water with North magnetic pole energies followed by South magnetic pole energies prior to heat exchange. After four (4) months of continuous operation, heat transfer rates at the cupola heat transfer surface have remained consistently high, and there has been no scale buildup or need to clean the heat transfer surfaces.

The beneficial effects of exposing fluid-type materials to North or South unipolar magnetic field energies are observable with organic as well as with inorganic liquids. Thus, South pole exposed fuels and oils, like water, are highly sensitive to environmental conditions and react more rapidly on exposure to heat, as in a combustion chamber, than unexposed fuels and oils. For example, it has been observed that South pole exposed flammable liquids burn more efficiently and provide an improved explosive result when employed as a fuel in a power- or energy-generating device. As a result, there have been overall fuel savings which contribute to economy of operation. The following examples illustrate some of the beneficial effects of exposing an exemplary oil, such as asphalt oil, to the unipolar energies of a South pole magnetic field.

EXAMPLE IX:

In a conventional process for preparing an asphalt-oil aggregate paving mix, the oil is typically heated to 250° to 320°F, usually about 290°F, and then mixed with previously heated aggregate to form a mix having a preselected oil content, ranging from about 4 to 8 percent, depending upon its intended use. To demonstrate the effect of the South unipolar magnetic field, an AC, 60 cps-powered 1000 gauss electromagnet, such as the apparatus mentioned in Example VII, was installed along the conduit between the oil heating unit and the aggregate mixing unit to expose heated oil to the South magnetic pole. In passing through the electromagnet, the oil was first exposed to North magnetic pole energies and thereafter exposed to South magnetic pole energies.

A. The time to complete oil-aggregate mixing in a conventional nonmagnetic system to form a commercially acceptable mix was typically 45 seconds. The corresponding time to form a com-

mercially acceptable mix using South pole exposed oil was 23 seconds. This observation, that South pole magnetically exposed oil appeared to be absorbed and to penetrate more rapidly, permitted a significantly increased efficiency in plant operation since mixing time was a limiting factor in plant output.

B. The fuel requirements for the oil heating unit in the conventional system (which typically receives recycled oil) to consistently discharge a 290°F oil to the mixing unit were determined. It was noted during operation with the South pole source installed and using the same amount of fuel that the temperature of the oil leaving the oil heating unit was 320°F. As a result, the fuel supply to the oil heating unit could be reduced by about two-thirds in order to return the system to a condition wherein the oil heating unit discharged 290°F oil. This resulted in considerable fuel savings.

C. The system was operated in a conventional manner, and all flow controls were set to supply sufficient oil and aggregate to produce a 4½ percent weight asphalt oil containing mix. Standard tests to ascertain the mix makeup verified that a 4½ percent asphalt mix was being produced. The system was then operated with the South pole source installed and all other settings the same. Three separate runs were made and the standard tests conducted to verify the mix makeup. The tests showed the mixes contained, respectively, 5.6 percent, 5.0 percent, and 5.4 percent asphalt. Thus the same quantity of oil as had previously produced a 4.5 percent mix, when subjected to a unipolar South pole magnetic field prior to mixing, produced a 5 to 5.6 percent mix. This observation allowed a significant cutback in the asphalt oil quantity supplied to the aggregate mixing unit and resulted in considerable savings in oil.

The information given in the examples is basic information. Our research is progressing in the energy field. By the time of this publication, a patent application is programmed from our advanced research in energy that will give 15 to 25 percent fuel savings.

VIII

THE ART OF MAGNETIC HEALING

In our book *Magnetism and Its Effects on the Living System*, we presented the results of hundreds of research experiments showing how the separate energies of a common magnet affect living biological systems. We received thousands of letters for more information on our research on the separate energies of magnetism. We followed with the additional publications of *The Magnetic Effect* and *The Rainbow in Your Hands*. *Rainbow* scientifically supported the ancient science of laying on hands as a provable applied science, with reproducible results, removing the application from superstition and unsupported theory. We believe we have advanced the art of healing and the science of magnetism by presenting reproducible evidence that the hands of men and women possess the separate healing energies of magnetism, each energy having a separate and distinct effect. This is similar in relation to the hands of living persons and those effects from the separate energies of a common magnet. *No healing with magnetism can be consistently effective without the separate energy use.* Much time, money, and wasted effort are spent by many researchers who do not properly use separate magnetic energy.

Although there are unlimited benefits from our discoveries in magnetism, there are also evident dangers we have come to realize in the misuse of separate magnetic energies. Additionally, we recognize from our research verification a number of dangers in existing scientific and commercial applications that do not utilize the knowledge of our discoveries. Since continued research is our prime objective, we do not have the proper time and money to investigate, nor mount campaigns against, these recognized dangers. As scientists we advise you of those of our findings that are not confidential in our work, and give our opinions in our publications concerning some of these civilized dangers. Our writings in this regard are intended to be constructive for the good of all people and are not intended to cause any detriment to the well-being of

any individual. It is our responsibility to tell you of our concern when our work shows a possible danger to any existing system, apparatus, method, commercial or industrial use. In this book, as in our prior publications, we have continued this policy in the hope that our information, and our opinions, will be useful for health, healing, and happiness for all people.

The facts are evident that many of our commercial and industrial applications are dangerous to our health and well-being. Some of our additional concerns focus on the lack of understanding in the basic sciences concerning the application of products, systems, and methods for public and private use.

The Stanford Radioscience Laboratory is concerned about the magnetic fields created by the San Francisco Bart trains, and they have good reason to suspect the effects of these fields on the human body. Our publications have the answers to this suspicion. It is clear, and we emphasize has been scientifically verified, that magnetic energies do affect human beings, as our published research with magnetic fields on animals indicated. NASA has, at this writing, informed us officially that they do not believe our findings in this regard, as have others so informed us. For the record we say here and now that NASA, and others in this category, are incorrect, and the future will justify our findings. We hope that it is not too late to save humanity. We cannot be more frank, as we believe the failure to properly investigate separate magnetic energies on the part of certain governmental, commercial, industrial, and health officials is a disaster that could lead to our downfall as a human race. In our opinion, the danger is self-evident, whether it be from Bart trains in San Francisco, household appliances, electromagnetic frequencies, or energy radiations.

Radiation and chemical therapy, as well as drugs and pharmaceuticals, in personal health care are under much-needed attack. Yet the scientific establishment connected with health procedures continues to devise more dangerous instrumentations due to the lack of applying basic physics, and basic physics in this matter is the basic operation of Nature's energies, whether they be magnetism, electricity, electromagnetism, or more complicated terms involving basic functions of these energies. For example, at the University of California School of Medicine in San Francisco, in England, and in other countries, research is progressing on a new diagnostic system involving nuclear magnetic resonance. The

process involves the use of magnetic energy without accountability for the effects of separate magnetic energy. It will involve, if applied for public use, the placing of persons into large magnetic fields for diagnostic purposes. Without eliminating the South pole magnetic energy from this process, our research verifications infer, if not conclusively show, a danger to any human being.

As our resources grow, and our prestige increases, from the products on the public market made available by our discoveries and more scientific acceptance of our work, we will devote more effort to combating present and impending dangers of this nature.

From our viewpoint the separate energies of magnetism must be accepted, not only in the new products we have designed, but in the science of existing products and systems, for the ultimate survival of humanity. And, as with most important discoveries in sciences, if man applies and misuses these discoveries, he will in this respect hasten the end of our civilization. The art of magnetic healing rests not in new discoveries alone but conjunctively in the proper applications of these discoveries, as the future of mankind has rested with the self-will of the individual, regardless of any religious meaning or belief. Man, in his greed, ignorance of Nature, or self-foolery, could destroy his civilization.

OUR ANIMAL RESEARCH

Since the publication of our research findings with animals, we have been contacted by thousands of scientists and researchers from all parts of the world, and scientifically minded persons have visited our laboratory from many foreign countries. We regret we do not have the time nor facilities to accept all requests for consultation, although we are increasing our facilities and personnel. We believe the day is not far when our medical applications on separate magnetic energies will be in general use and application, as they provide answers that are sought in medical research.

We have been successful in infecting animals with many types of the most difficult human complaints, including implanting tumors that developed cancers. The use of applied negative magnetic energy, as presented by the North pole of a solid-state rare earth constructed magnet, has acted to reduce, arrest, and in many cases afford complete recovery.

Horses, dogs, cats, and monkeys all experience disease complaints similar to the human complaints of arthritis, inflamed muscle restrictions, and allied complaints. We have shown in our animal research that these similar complaints can be arrested, and there usually can be a return to a normal, healthy condition with the application of negative magnetic energy.

We stress, as we have repeatedly advised, that the scientifically accepted interpretation used to identify North or South poles of a magnet is confused, misleading, and usually incorrect. The North pole of a bar or cylinder magnet is that pole which is attracted, naturally, to the South magnetic pole of the earth. The South pole of the magnet is that pole attracted to the North magnetic pole of the earth. Many manufacturers incorrectly label their magnets in this primary disregard of natural laws. And the scientific community must also share the fault for ignoring this basic principle of energy that like attracts unlike in the energy relationship of natural laws.

We have been advised that we should write scientific papers on separate magnetic energies for publication in scientific journals. We have established our priorities. We agree with many other scientists that the peer system of reviewing science articles is not effective. The reasons for this conclusion are many and are well publicized. From our own experience, the time and costs involved are prohibitive. And government agencies have discouraged our seeking grants to advance our work in biomagnetics.

Financial support in scientific research is seldom given to the independent scientist, in the sense of independence as our private research facilities. Colleges, universities, large corporations and research facilities are favored, and a few scientists in this nation seem to control the publication of science information in prestigious science publications. This is not news, as it has been explained in a like manner by a number of these prestigious science publications.

We believe, as do many research men and women, that the health and welfare of our scientific community suffers from poor management and control of effective grants and research findings. Many new and promising scientists are leaving research for more productive fields of enterprise. Why waste the time and effort, as we have in the past, in writing scientific papers for armchair scientists who "don't get their hands dirty" by attempting to reproduce an experiment before denying its effectiveness, who are afraid

to open their mouths, although they may believe in any new science development, for fear they could lose their position or be ridiculed by their compatriots? And we must consider the lack of understanding and misuse of basic science principles, which does not allow proper evaluation, in the disallowing of new science papers to be published.

We will continue to publish our nonconfidential findings in book form, to obtain additional patents, and to have more products on the market from our research. Eventually, if it is to be, the importance of this science will be self-evident. No armchair scientist nor government official will be in a position to hinder the public demand that would arise, for in our science are many of the answers that are sought today. The correct application of separate energies of magnetism can be used to improve the total environment, life, health, healing, and happiness.

Magnetism could, in our lifetime, be used to improve water and foods and to aid the medical profession where drugs, X rays, and cobalt treatment cannot arrest successfully.

Antibiotics have been one of the greatest discoveries to aid suffering humanity, as well as our pets and farm animals. Still, the correct study and application of separate magnetic fields is a new avenue of science with far-reaching potential.

THE N-1 RESEARCH MAGNET

The type of magnet used in most of our research is referred to as the N-1 magnet. It is composed of ceramic materials and is called a ceramic magnet, with a ceramic base. It is black and looks very much like slate. Not being metal in composition, it is very hard and will break if dropped on a hard surface. Flat in appearance, it measures two inches wide by six inches long and is one-half inch thick.

One side we mark with red dots to indicate the South pole side; the North pole side we leave unmarked or mark with the color green. Since these magnets are specially constructed to capture and apply separate magnetic energies, they are not available in stores or from scientific companies. Imitations exist that do not perform effectively as the N-1. If interested in conducting research with the N-1, write our laboratory and we will send you information where to obtain this research item.

NORTH POLE OF THE N-1

Some of the findings from forty years of well-documented research into magnetic effects on biological systems using the North pole of the N-1 magnet are:

1. Against the skin of animals suffering pain, the threshold of the pain level is reduced and, unless a condition such as broken bones or physical damage is acting to continue inflaming nerves, pain will be arrested in nearly all cases to a practically nonexistent level. The authors have themselves used this application successfully many times, as hundreds of researchers have informed us they have accomplished.

The application is thirty to forty minutes twice a day, or once a day if the pain is not too severe. Pain and existing swellings show a marked decrease.

When nerves in a part of the body or on the inner surface of the body become inflamed or swollen, pressure has been exerted on nerve endings, sending electrical pain impulses to the brain. These electrical signals to the brain are translated into pain impulses you feel, sense, and experience. Pain can also be caused by infection or by the problem of calcium forming in or around joints. The removal of a pain condition is to remove the cause of the pain, the pressure, the inflamed or swelling area, the infection or disease.

2. The North pole of the N-1 has shown remarkable results in giving relief from and in arresting arthritis in animals. The North pole energy acts to encourage the dissolving of hard calciums in and around joints.

3. The N-1 negative energy attracts body fluids, including white and red blood cells.

The biological system has the ability to heal itself, if it has the strength and necessary biochemistry to aid the injured part of the system, and to attract needed defense fluids, such as white blood cells, to an injured part, aiding the ability to self-heal.

White blood cells are the soldiers which the system's defense mechanism summons to a troubled area. White blood cells can consume invading germs, bacteria, and viruses. They simply march to the attack and start to consume the germs of similar invaders. Through the system's built-in toxin removal nature, these white cells are cleansed and returned to duty, although casualties result

and many white cells die. New replacements arrive to continue the battle. If the white cell army cannot defeat the invader, the diseased or affected part usually decomposing is removed surgically.

4. North pole energy supplies an energy similar to negative biological voltage of the biological system.

We have noted, measured, and recorded the fact that when a bone is broken, there is a sharp rise in the negative biological voltage at the point of the break or fracture. The system's defense and repair system rushes additional negative healing voltage to the area.

Negative voltage, when externally applied to a damaged area, such as the low voltage from a small one-cell flashlight battery (with a means of controlling the battery current) will act to relieve pain and speed up the fracture repair.

All our research, without exception, indicates the need for negative energy as support to all healing processes undertaken by the biological system. We believe this to be a law of Nature for all biological systems, which should be accepted for the survival of our civilization. The North pole of a magnet, as the authors have identified the North pole, acts to provide a form of negative energy to a needed area assisting the stimulation of the system's own negative energy necessary to combat all disorders, and the system automatically removes this increased supply of negative energy internally when the job of healing has been accomplished.

5. The N-1 North pole negative magnetic energy acts to compress versus expand, to attract versus disperse.

Where you place the North pole energy to a system, fluids, gases, air, and water will be drawn to that location. This is especially important in drawing water away from joints or other body locations. For example, in an animal's body, note where the water is you wish to move or direct from one location to another. Placing the N-1 North pole above or below the noted location thirty to forty-five minutes, you will find the next day that the water fluid has moved to that location where the magnet was applied. The number of applications to be given to a damaged area depends on the size of the animal. Repeated sequences day to day may be necessary to draw the water fluid into a more fleshy area of the animal for circulation and organ removal. The procedure of moving water by negative energy has been used many years in mining and geological work to move water up or down an

incline, hill, or mountain. Positive electrical energy is placed in one section or terrain and negative electrical energy in another nearby area. Negative electrical rods are placed where the water is to go and positive electrical rods where the water will be removed. Slowly, when the electrical energy is applied to the rods, the water will move downhill or uphill according to the location of the attracting negative energy. Magnetism sometimes acts in similar ways to that of direct current electricity, when using the separate energy effect.

In the biological system, when there is a large amount of water to be moved, two separate research magnets can be used in each application. The South pole is placed to the water location, the North pole where you want the water to travel. The day after application, the water will have moved more effectively than by using one magnet.

6. Cancer and other ailments can be arrested by the North pole negative energy, perhaps percentage-wise over 90 percent, giving allowances for hereditary and other individual factors, as our animal research has proved and many other researchers have verified.

7. The North pole energy can extend the lifespan of living systems by slowing down the aging process. There is a drawing, arresting, slowing down of all the system.

In our previous publications we went into detail on the time and application in our animal research, i.e., *The Magnetic Effect*. Time of application is important as too long an application of North pole energy will lower physical strength.

SOUTH POLE OF THE N-1

Some of our findings on the biological system with the positive magnetic energy are:

1. Encourage strength, increase life action. Thus, the South pole of a magnet, as we have identified the South pole, should never be placed against a painful area, a swelling, infected or diseased area, since this would make the condition described more severe. For example, germs are a form of life, and the South pole energies would encourage their growth and development.

2. More generally, the South pole energy will strengthen muscles, limbs, joints, tendons, ligaments, increase blood flow and cir-

ulation, strengthen glands, organs, and the production of fluids. It is the positive life-giving energy. A more detailed explanation and uses of application are in our previous publications.

We are continually receiving confirmations from researchers in many foreign countries, as well as the United States, that our findings about biological systems treated with the separate magnetic energies are correct. In all respect to these dedicated persons who have reproduced our research, suffering humanity needs the publication of these verifications, which cannot be accomplished without the approval of the researchers. Some way has to be found through the maze of bureaucracy, self-defeating controls, and overprotectiveness to allow the freedom of published verifications without the crucifixion of these dedicated scientists by self-imposed armchair scientists, as well as ill-meaning and misguided bureaucrats.

NEGATIVE ENERGY AND POSITIVE ATTITUDE

Much confusion results in not making the correct distinctions between life energies and personality attitudes. "Positive" and "negative" are words that are misused in every conceivable manner in discussions, writings, teachings, and understandings throughout human knowledge. The word "negative" is incorrectly identified with our present knowledge of its broad meanings.

1. Negative air ions are better for the health of living systems than are positive air ions.

2. Negative electrical energy is better for health applications than positive electrical energy.

3. North pole negative magnetic energy acts to arrest and eliminate complaints and disease, whereas positive magnetic energy will increase these difficulties.

4. The North pole negative energy has more beneficial results than positive magnetic energy in encouraging the thinking and mental processes.

5. Positive magnetic energy will increase physical strength, but mental processes are not correspondingly increased. In our animal research we found the physically stronger animal became the weaker, slower-reacting animals; whereas, the negative magnetic treated animal became more alert, sensitive to environmental surroundings, and more intelligent in manner.

6. The same result occurs when using magnetically treated water on animals. The positive water animal slows his activity and

reacts in a dumb or slow manner. The negative water animal has an increase in both mental and physical ability to get busy, to go on living with a more adaptable attitude. In our own personal experimentation, we would drink one-half an average glass of North pole magnetic water in the morning and sometimes in the midafternoon, which gives added encouragement to our system in accomplishing our work schedule. This experiment, as many of our other experiments, has been personally verified by other researchers. The differences in water content due to location seem to allow no different result. The North pole magnetic energy is the "go-getter" energy, and we call the South pole positive energy the "I don't care" energy.

Excessive use of negative magnetic energy will, over a period of time, the length of time individually dependent, make the living system physically weaker, although more mentally alert. Here again we see the importance of balancing natural energies, although our research is definite that an excess of negative energy is more beneficial than an excess of positive energy, which is a positive attitude on these natural energies.

Negative *energies* protect, afford health, control emotions and the atmosphere and air we breathe. They are the system's own processes of internal healing. Negative *energy* takes you closer to your natural being, while positive *energy* makes you more ego-minded, less concerned with the rights of others, peace, order, harmony, and, as a result, you are unhappy.

Heat is disorder; cold is order. Heat and positive energy destroy the balance of health and welfare in elements and the biological system.

According to the laws of Nature, when you are a negative energy thinker, you are a reasoning, thinking, sensible, understanding person. If you are a positive energy thinker, you are an unreasonable, inconsiderate, insensible person. Either we should make our distinctions clear between negative attitude—negative energy, and positive attitude—positive energy, or we should correct our writings and understandings totally with the use of negative and positive to conform with Nature's laws.

THE MAGNETIC MOTHER

Although we have previously reported information on this research, we believe in repeating this information for your considera-

tion as a real lesson in inborn intelligence.

Newborn chicks, birds, kittens, puppies, and rodents have the ability to know, without instruction, the secrets of Nature necessary for their survival and growth. The general scientific community is slowly becoming aware of this phenomenon, best realized in 1977 and 1978 in studies on chimpanzees and gorillas. An experiment that we first accomplished many years ago, reproduced hundreds of times, shows the importance of this realization.

1. Place a horseshoe magnet in a cage.
2. Immediately after the baby chick hatches, place it in the cage while it is still wet from the shell.
3. As soon as the baby is dry, it goes to the magnet, walks inside the magnet's two poles, and lies down.
4. Within a few minutes it will get up, walk out of the energies, and remove itself to the furthestmost part of the cage from the magnet. Later, the same chick would return to repeat the process, and this would continue during its growth. A newborn bird, kitten, puppy, or rodent will do the same.

In our research facilities we place magnets at different locations where our animals roam without undue confinement. The magnets are placed for only positive or negative energy (N-1 magnet). Animals seem to know when they need a separate magnetic energy for their welfare. They will go to the specific energy magnet according to their systems' needs.

It is only recently that medical science has become aware that the human baby has its own sign language—physical movements as well as vocal—in trying to communicate. This is a field of research that is most needed in order to research, study, watch, record, and instruct this new translation of the human baby's physical body language into our own adult language. Animals are very much the same as people, as any pet owner can tell you. A cat or dog can sense energies, personalities, smoke, odor, and danger faster than most other pets. If a cat, dog, or baby chick can sense the benefit of a magnet's energies, and man finds it so difficult to believe in this aid, this could become another example of how man ignores his natural environment, so important to his health, healing, and happiness.

IX

A CASE HISTORY

This is a case history on cancer.

One of the world's most honored scientists, Dr. Albert Szent-Gyorgyi, recipient of the 1937 Nobel Prize for Physiology and Medicine, now Scientific Director of the National Foundation for Cancer Research, Woods Hole, Massachusetts, deplores the existing bureaucratic procedures in cancer research. Dr. Szent-Gyorgyi believes "the electronic dimension" is the research area to be probed, yet "editorial board of journals and the committees distributing grants are dominated by biologists of the molecular dimension who find it easier to reject new ideas than to get acquainted with them."

Dr. Clarence D. Cone, Jr., formerly Chief, Cell and Molecular Biology Laboratory, Hampton Virginia, VA Hospital Center, and now with the Eastern Virginia Medical School, is well known in scientific circles for his research on the "control of cell division by the electrical voltage of the surface membrane." Dr. Cone's presentation to the Twelfth Annual Science Writers Seminar, American Cancer Society, San Antonio, Texas, March 1970, detailed his research in relation to the normal versus malignant cancer cell.

Our correspondence with these two outstanding researchers, and our studies of their research, indicates a similarity in their approach to discovering the mysteries of the cancer cell, and a similarity in the lack of effective acceptance of their work by the bureaucratic scientific community.

Our research agrees with Drs. Szent-Gyorgyi and Cone in the "electronic approach" to the cancer dilemma, although we have found from our some forty years of cancer research that the mystery is shrouded in understanding the separate energies of magnetism within the electromagnetic energy relationship.

As Dr. Szent-Gyorgyi has stated—as well as Dr. Linus Pauling, two-time Nobel Prize winner, and many other researchers—we have also found that those persons in control of accepting and disseminating new scientific information do not have the proper criteria to evaluate new discoveries, such as the separate magnetic

energy effects on biological systems. Kind words and expressions are given about our work, but the effective implementation to program through the bureaucratic system does not function. And science journals (mainly supported by drug and pharmaceutical companies alien to our natural energy discoveries), or university and other prestigious establishments supporting these publications, and the grant-considering committees do not give needed support to independent research organizations. Frankly, we have come to believe that "the establishment" is so far off-base in its procedures and scientific programs that support from these areas could, in fact, delay the acceptance of our work, as they seem to confuse and befuddle by their misunderstandings of basic natural laws as we have come to comprehend. Under the circumstances we have chosen to publish our research discoveries in book form for public knowledge of our work, and we will continue in this manner.

On September 5, 1975, Olin E. Teague, Chairman, Committee on Science and Technology, U.S. House of Representatives, wrote Dr. Albert Roy Davis, "I appreciate your information concerning the discoveries of the differences between cancerous cells and normal cells. We are grateful for your presentation of the facts in this matter. It appears that the electromagnetic state of the body is more important than previously thought and I congratulate you. . . ." Attempts on our part to follow up with grants for our work, or further government investigation into the merits of our work, have been disappointing.

The first submission of the cancer research by Albert Roy Davis was in 1946. Letters were sent to government agencies advising that primary tests indicated that the separate use of magnetic energy could be a new approach in arrest and control of cancer. The agencies responded with thanks for the information and with rejection of any research followup. In 1946, government agencies, scientists, and researchers were not interested in magnetism. Atomic energy was in development, and the scientific community considered they had the answers to "everything" by research and development in the new field of atomic energy. Now we find that atomic energy, even low levels of atomic energy, can cause cancer. This includes X rays, a form of atomic energy.

After 1946, testing facilities at the Albert Roy Davis Research Laboratory were enlarged, more animal species were obtained, and it was learned that cancer could not be transmitted from one

human living system to another human living system without first causing a state of infection for the cancer to be transferred. Government agencies, research organizations, and scientists were kept advised of the research progress.

In 1948 and 1949, conferences on cancer research were held with the Chief of Staff, VA Hospital, Atlanta, Georgia. Although the officials at the VA Hospital in Atlanta were sympathetic to Davis's cancer research, no progress could be made in acquiring government backing for animal and human tests. Anyone who has become involved in research knows the problem in obtaining not only official guideline approval for research verification before approved public use, but also the problem in obtaining necessary funding for such projects, even in the presentation stage for further development approval. Government agencies, private funding organizations, as well as other groups, such as the American Medical Association, the American Cancer Society, and scientific magazines, were all contacted to disseminate the information found and also for further assistance in bringing the new approach of separate magnetic energy into use for the arrest and elimination of cancer. No effective support was given to the separate magnetic energy approach and, still, research at the Albert Roy Davis Research Laboratory continued.

From 1970 to 1973, our research laboratory revived its attempts to bring our work to the public. We initiated a program of again contacting agencies, research organizations, and other important persons, anyone who might give assistance to the verification of our work for public use. The year 1974 saw the publication of our book *Magnetism and Its Effects on the Living System* (Exposition Press, Hicksville, New York). Since this publication we have heard from thousands of researchers duplicating parts of our work. Several hundred, including those in university departments in the United States and other countries, have verified our initial findings that negative magnetic energy can arrest cancer. We hope that these researchers will publish their findings, or allow their names to be used with their research verifications.

Still, in 1975, the government agencies were not interested in investigating magnetic research for cancer arrest. A letter to Dr. Davis from Robert J. Avery, Jr., Head, Public Inquiries Section, National Cancer Institute, dated August 26, 1975, stated, "In reply to your most recent letter to the National Cancer Institute, at the

present time the National Cancer Institute is not conducting intramural studies of magnetism and its effects on cells, and the NCI is not in a position to evaluate your work."

On August 7, 1975, Dr. Davis wrote to Dr. Ernest B. Howard, Executive Vice-President of the American Medical Association, sending information on successful cancer arrest with negative magnetic energy. We mentioned the Kathy Solis presentation before the AMA in 1973 where magnetism arrested cancer in laboratory rats, but when the energy was removed from the species the cancer returned. We pointed out that our discovery and application of separate negative magnetic energy had been successful in arresting cancer without recurrence of the disease. We offered, at our own expense, to give a demonstration of our work to the AMA. On August 19, 1975, Dr. Asher J. Finkel responded to our August 7 letter stating Dr. Howard had retired and "the material that you sent will be examined carefully." Following up this approach our phone calls and letters were not answered.

We prepared a letter about our work with supporting enclosures and sent them to over 300 scientists in cancer research, science magazines, and persons expressing a public interest in the fight against cancer. The letter follows:

Due to the importance of this scientific disclosure, we are enclosing a reprint of an article from the July 5, 1975, issue (Vol. 108) of *Science News*, titled, "An Electron Theory for Cancer." On the same page is an article on "Polarized Electrons in the Pipe," with other enclosures herein.

In view of the statements made in these articles, we are taking the opportunity to acquaint you with the following facts.

We have spent thousands of dollars in the presentation of our two books, *Magnetism and Its Effects on the Living System*, released in 1974, and *The Magnetic Effect*, released in 1975, published by Exposition Press, Inc., New York. These books contain reproducible scientific facts as to the bioelectrical biomagnetic differences between the many types of cancer cells and normal healthy cells. It has required many years of research, under controlled conditions, controls versus implanted and controlled cancer growth development, to compile the facts presented as to the effective arrest of these many forms and types of growths in advanced and development stages.

The introductory statements made by the editors of *Science News* are totally inaccurate and untrue in their reference that scientists at this time have not yet shown or defined the differences between the cancer-affected cells and normal, healthy cells.

We have for the past twelve years, as a minimum time reference, presented the facts that a cancer cell has a different membrane sodium voltage, opposed to that of a normal cell. We have presented these facts

to such organizations as the American Cancer Society, the national science departments of our government, etc., with little or no responsive interest shown in our discoveries as to cancer cells and their abnormal behavior. Copies of our books have been sent not only to interested scientific parties but also to scientific reporting periodicals, such as *Science News*. No reply or interest has been indicated by these magazines. Such total disregard of the facts reported to them has inadvertently suppressed discoveries by many men and women that could be of immeasurable benefit to humanity.

The statement made by Dr. Albert Szent-Gyorgyi, an eminent scientist and Nobel Prize-winning biologist, that the effects of the electron/protein bonding in reference to the triggering of cancers, quote, "I would not care to speculate on . . . I know so little about," unquote, is another example indicative of the breakdown in communications in the scientific communities. These breakdowns have occurred because of the inadequate coverage of vital and important scientific information that are the responsibility of such science reporting magazines and associations, one to the other, and the government's total bureaucratic bungling in its handling and release of urgent direct and vital scientific research data.

Our books were published in lieu of this scientific communications breakdown that now exists in the United States. Our country is a poor seventh in scientific research and new developments in lieu of the work now being conducted by the other nations of the scientific world.

These books were presented as scientific papers, not simply present theories, but scientific reproducible facts. The use of laboratory controls, against all results, has been simplified to eliminate any difficulty how to reproduce the cancer tests, to understand the effects of the *nonhomogeneous* (separate pole energy) effects to cancer states, kinds, types, stages, and developments.

Therefore, it is our hope that some responsible association, agency, or organization will examine the years of factual and reproducible work we have presented in our books and use that information to aid them in their understandings of the biological bioelectrical differences between the cancer cell and the normal cell.

The proof that use of the proper pole energy of any two-pole magnet can confine cancer cells to a localized area, actually starving them out of existence by eliminating their vital food supply, demonstrates that the *electron spin effect* is the answer to amplification of those biological electrons needed to offset the development of cancers and their arrest. This should spell out to the scientific community that what the living system develops, within its own defense mechanism against invading elements or cell damage changes, is within the application of the proper pole energy to increase the defending electron biological voltages to the cell's normal defense system against the electron/proton imbalance that exists in all cancer cell developments.

The few responses to this time-consuming and expensive task were polite but not progressive. Comments, for example, from the editor of *Nature*, a prestigious English scientific magazine, stated, "I have noted contents with interest and will keep material in file,"

and, from Sen. Hubert H. Humphrey, "I appreciate your keeping me informed."

Through the assistance of Rep. Charles E. Bennett, we tried a different approach with the Naval Ship Research and Development Center, Annapolis, Maryland, a prestigious agency of the U. S. government doing outstanding research in a number of areas, including medical applications. Some forty-one enclosures were sent with our first introductory letter. There were followup letters and meetings in Washington at our own expense. Other agencies of the government became involved, and we continued to submit further information. Medical information on the separate magnetic energy in arresting cancer was not given material interest. The usual answer received was, "We can't find a qualified scientist to evaluate your cancer work." On repeated suggestions for one or more government scientists to visit our laboratory facilities and see our work firsthand, there were promises but no meetings at the laboratory occurred.

A more recent approach to the American Cancer Society was initiated on December 4, 1975, to Mr. Tom Ulmer, Chairman, Board of Directors, American Cancer Society. We delivered copies of our scientific books detailing our cancer research and findings, copies of letter correspondence, and verification papers from two other scientists who had reproduced our work. Mr. Ulmer is not a medical or scientific doctor, which is unusual as this position with the American Cancer Society is normally held by a doctor. Our relation with Mr. Ulmer was very satisfactory. He was sincere and aggressive in his attempts to aid the verification of our work. Unfortunately, Mr. Ulmer, as any Chairman, Board of Directors, American Cancer Society, must rely on consulting physicians and scientists to the society.

On February 26, 1976 we received the following letter from Mr. Ulmer:

You will recall that I promised to have the 2 books and other data which you provided me on electromagnetics objectively evaluated in accordance with your request.

All of this material was referred to a biophysicist at a major medical university who reviewed the matter at our request.

I regret to advise that I have today received the evaluation of this data and the conclusion of the reviewer was that there is no factual basis to support the claims made by the authors. I think it is only fair that you should have the substance of the report rendered and a Xerox of same is

attached hereto with the name of the reviewer deleted by me. I regret to have to relay the negative comments in the report but am only complying with your request that I have this data submitted to impartial and objective analysis.

We informed Mr. Ulmer that we do not mind a scientist criticizing our work, but we do object to misquotes of our work. For example, this consulting scientist said our written material suggested we can "cure cancer," which we did not say and would certainly object to anyone making such a statement. In fact, our work emphasizes that the biological system's own energies, similar to the separate energies of magnetism, affect the reported cures of cancer, as any responsible researcher should understand.

Mr. Ulmer was not allowed to give us the name and address of the scientist who made this "objective evaluation" for our follow-up, so we reasonably discounted his improper comments. Another evaluation report by an "unnamed physicist" was later given to us, and we are reprinting that report herein with our comments.

List of Documents Reviewed:

1. *The Magnetic Effect* by Albert Roy Davis and Walter C. Rawls, Jr., Exposition Press, Hicksville, N.Y. (1975).
2. *Magnetism and Its Effects on the Living System* by Albert Roy Davis and Walter C. Rawls, Jr., Exposition Press, Hicksville, N.Y. (1974).
3. *The Scope of Biomagnetism* by Albert Roy Davis and Walter C. Rawls, Jr. (Undated).
4. Two statements by Dr. Ralph U. Sierra of the "Puerto Rico Scientific Research Laboratory, Inc.," and notarized in Florida, to the effect that he had carried out in his laboratory in Puerto Rico experiments similar to those carried out by Davis on the magnetic effect on growth of seeds and their subsequent plant growth and the effect of magnetic fields on healing of wounds.
5. *The Effects of Applying Magneto Magnetic, Biomagnetic Fields to the Living System and Its Use as a Diagnostic Method* by Dr. Harold E. W. Brownlee and Albert Roy Davis, DS, (Undated).

The first statement by Dr. Sierra indicated that he had personally directed the treatment of seeds by magnetic fields according to the methods of A. R. Davis, planting them under the influence of either north or south magnetic poles. His experiments confirmed that the south pole promoted and advanced growth whereas the north pole retarded growth. He also applied magnetic fields to wound healing, infections, and the growth and development of rodents with similar observations as to the different effect of the different poles. This statement is notarized in Florida on June 20, 1974. An additional statement by Dr. Sierra dated August 16, 1974, is stated to have been made "In the U.S. Patent Office" re: "Appli-

cation of A. R. Davis, Serial No. 463,414 filed 4/23/74 for therapeutic process." In this document he states that he exposed $\frac{1}{2}$ lb. of various types of seeds for 8 hrs. to either north or south poles of 2,000 gauss strength and also exposed $\frac{1}{2}$ lb. of seeds under controlled conditions. After 3 days those treated with the south pole showed greater germination and growth than did the controls and much greater than those treated with the north pole. In treatments of sugar beets, the sugar content of those treated with the south pole was much more than of those beets raised under controlled conditions which was in turn more than the sugar content of those exposed to the north pole. Further, be repeated experiments by A. Roy Davis on earthworms demonstrating that south pole treated earthworms grew larger and faster than north pole treated earthworms. Application of the north pole to rodents with wounds indicated improved blood-clotting with the application of this polarity of this magnetic field.

The document on *The Effects of Applying Magneto Magnetic, Bio-magnetic Fields to the Living System and Its Use as a Diagnostic Method* by Brownlee and Davis uses the personal pronoun I despite the multiple authorship. It is stated that "the cables of magnetic energy" leave the south pole and do not continue on to enter the north pole of the magnet, but enter at the exact midpoint, the physical center of the magnet. It is further stated that "the energy alters its electronic spin by 180° rotation and then leaves the center point with a reverse spin rotation movement, then to continue on to the north pole." These terms are not precisely defined. It is further reported that the application of a 3,500 gauss north pole to bleeding of wounds, cuts, tissue damage results in control of the bleeding capillaries in approximately one hour. When the north pole is applied to first through third degree burns, pain is controlled or fully arrested and faster overall healing takes place. It is further noted that if there is a buildup of fatty mass, cholesterol, on the inner walls of arteries, the application of north pole energy reduces such fatty acid buildups and then the application of the south pole expands and softens the walls to make them again flexible.

The document entitled *The Scope of Biomagnetism* contains some philosophical digressions in addition to reports of experiments. It is emphasized that rather than magnetism being considered a child of electricity, their work has shown that magnetism is the father of electricity, although the significance of this development is not adduced. Reference is also made to a point which appears repeatedly in all of their documents to the effect that the biological actions of the north pole and of the south pole are entirely dissimilar. The philosophical scope of their work is emphasized also in this document as "opening a greater appreciation of man's relation to his environment and to his God." It is further emphasized that their publications are in many of the leading medical and public libraries in major nations of the world and are also being used as textbooks and reference material in a number of colleges and schools. In this, as in their books, there is some historical treatment which is interesting and refers to reports by early observers such as Hippocrates, Galen and others on medical applications of natural magnets. This document also contains another fundamental assertion which is repeatedly made in their other publications to the effect that lines of force do not flow directly through the air from the north pole to the south pole or vice versa, as generally

understood and taught. Rather they consider that energy from the north pole is directed to the center of the magnet and from there travels in spirals. They also indicate that with bar magnets the same phenomenon exists and that the south and north poles constitute magnetic energy in either a positive or negative form and that this "spins in different directions." Reference is also made to application of the correct magnetic field in the production of speedy wound healing, pain control without drugs, quicker mending of fractures with the bone being stronger than before the break, dissolving calcium in many types of arthritis, etc., and "control of many types of cancer some resulting in total regression." These are all claimed to occur with the application of these fixed strength bar magnets.

They have established in their laboratory a two-way communication radio with which they are in communication with other radio operators. It is indicated that their experience with radio reception and transmission is a partial explanation of the brain's ability to receive and send impressions, thoughts, over great distances.

In this document as in their books and other publications there is repeated reference to experiments with mice and other animals exhibiting different effects of the application of north and south poles. For instance, it is indicated that application of the south pole to mice causes them to become messy in their housekeeping, increases their appetites, increases their engagement in sex, and increases the size of their offspring. On the other hand, north pole mice became neat and tidy, had smaller offspring, were much less frequent in their sexual behavior, and lived 45 to 50% longer. It is noted that when reading, studying or analyzing, the use of a small magnet a few hundred gauss for not over 10 minutes per day to the "third eye which is at the exact center of the forehead, can increase the mind's ability to store and recall more information." Reference is again made on this page to the concept that a magnet has "electro motive frequency." It is also pointed out that the human hands possess an energy similar to the magnet's separate poles which aids human beings in being natural healers.

The book on magnetism illustrates the wide range of interests of the authors. It contains again interesting comments on the history of magnetism with reference to early records of the use of natural magnets. Their concept of the magnetic field is brought out which indicates that the "cables" of force (not lines of force) do not travel directly from one pole to the other but enter the bar magnet at its exact center and perform other maneuvers before reaching the opposite pole. Much of this book is devoted to reporting experiments illustrating the different biological effects of the application of either north or south magnetic fields. The application of the south magnetic field causes among other actions, the following effects: earthworms grow larger, longer and are more active; protein amino acid development is enhanced in earthworms; seeds produce larger plants; sugar beets produce more sugar; peanuts produce more oil; chicken eggs have a shorter incubation before hatching; chicks are observed, and when a magnet is in their cage, they seek it out for its beneficial effect; sex life of various animals is greatly enhanced; mice are born earlier, easier and are larger at birth and their mothers are stronger; rats show the same effect as mice including being neater and cleaner; rabbits illustrate the same effects.

In this text there is also occasional reference to man as an electromagnetic animal and that the application of magnetic fields results in marked reduction in cancer and also that the application of direct poles produces a marked resistance to the ability to transplant tumors in animals.

The text entitled *The Magnetic Field* repeats the finding that there is a major distinction between the north and south poles and then considers a variety of diseases which are aided by the application of either north or south pole fields. For instance, the application of a south pole can improve the healing of bone fractures, improves digestion, makes the ear diaphragm more flexible, promotes sexual activity, promotes healthy hair color, promotes the cure of headaches and of neuralgia and promotes health of the heart. The application of the north pole is beneficial to arthritics, to bladder ills, controls bleeding, also promotes healing of bone fractures, is beneficial to brain tumors, beneficial to bronchitis, beneficial to burns, causes regression of cancer, is beneficial for glaucoma, is beneficial to liver, and is beneficial to the pancreas. Further in this book it is indicated that these magnetic fields actually "pulse" and have vibrations. These statements, which are contrary to generally accepted understanding of constant magnetic fields, are not supported by evidence.

Comments:

It is apparent in their writings that these authors are imaginative and have wide-ranging interests. Several points are repeatedly made including the following:

1. Contrary to prevailing views of the existence of lines of force connecting the south and north magnetic poles in air, or other media, such lines of force are really "cables" of force and enter the magnet at its midpoint reversing in their "spin" before proceeding on. A similar situation is claimed for the earth's magnetic field with the lines of force not extending between the two poles but entering the earth in its equatorial region. These assertions by the authors are not supported by any described experiments. Present concepts of magnetism are based on different experiments by different physicists described in detail in *The Physical Review* and other refereed physics journals over a period of decades. The reviewer sees no basis for crediting the assertions of the authors in the absence of experimental evidence.
2. It is reported that not only do the constant magnetic fields of a bar magnet have a biological effect but that the effect of the north pole is quite different from that of the south pole.
3. Numerous observations with many different systems can be generally summarized as indicating that the effect of the south pole is to promote growth and activity, whereas the effect of the north pole is to reduce activity.
4. The observations above in items 2 and 3 are made repeatedly but the experiments are not adequately described. With respect to the mice, rats and other animals employed, the usual details are not given as to strain, age, weight, sex, feeding, cage distribution, end point criteria, period of observation, etc.

The design of the experiments, including the handling of controls, as well as analysis of results with error analysis, is not given. In the

absence of such important details, this reviewer does not see any basis for the conclusions by the authors. Preparation of a report of their experimental observations with sufficient detail and logic should be undertaken in order to meet the criteria of a properly refereed journal.

This comment by this reviewer applies only to these reports of results obtained by the authors with fixed magnetic fields. There may be fixed magnetic field effects, but the authors have not presented convincing evidence. On the other hand, biological effects due to applications of electromagnetic fields and electrical currents are well established.

5. Although there are references to pulsing of magnets, to electromagnetism, to extrasensory perception, these topics are mentioned only casually. The bulk of the work deals with the effects of fixed magnetic fields, either north or south in polarity.

Other authors have published articles in journals illustrating the biological effects of electromagnetic fields or of electric currents. However, these authors (Davis and Rawls) have not published any of their magnetic effects in journals nor do they refer to any other authors who have succeeded in so doing. This distinction is made between the work of Bassett reported in the New York Academy of Sciences who dealt with electromagnetic field effects on healing.

Recommendations:

1. In view of the startling nature of the results and concepts of the nature of the magnetic field produced by either a bar magnet or that of the earth, it is recommended that the authors submit these novel findings to a rigorous physical journal such as *The Physical Review*. The earth's magnetic field has been mapped in considerable detail over a period of many years. The nature of the magnetism of bar magnets and other materials has been treated extensively in the field of physics and considered understood. Accordingly, since the findings reported by these authors are at variance with the accepted principles of magnetism, they have a responsibility to science and to the public to detail their findings in a manner suitable for publication in a journal.
2. The other alleged findings of these authors, such as the biological action of their magnetic fields, could be of the greatest importance. If they could be substantiated they would not only provide assistance in treatment of disease but would constitute a major direction to be explored in order to obtain further control. The books and papers mentioned above report encouraging effects but do not provide necessary detail concerning the experiments, nor is there any indication that the conditions of the experiments have been designed to avoid ambiguity and natural variation. Accordingly, here again the authors have a responsibility to science and to the public to write up some of their experiments in sufficient detail and with sufficient attention to logic as to be appropriate for publication in a journal.

Although we believed that this unnamed scientist had fairly, if not correctly, summarized our work presented to him, his recommendations missed the point that prestigious scientific journals have

not responded to our efforts nor are they programmed to publish independent research findings, as Dr. Albert Szent-Gyorgyi and other renowned scientists have so eloquently explained. In further comment we have stated, and we state herein, that it is not an oddity for new scientific discoveries to be presented in book publication. Since the time of Galileo this form of presentation has been effective and representative, excepting those concerned with monopolizing the dissemination of new scientific information. Further, our work was reviewed by known scientists before our books were published, and we did ask to have our experiments performed. Finally, not following artificial procedural customs does not make a fact of science incorrect.

It is a fact that acceptance of our research into national or worldwide implementation would eliminate the need of expensive research undergoings by others and could conceivably shake up some institutions wasting the taxpayers' money. We believe this factor is a strong consideration against our work as it is against any innovation different from the norm of society, although the acceptance of the new would be more beneficial to all people.

Our work has been published in science journals in England, Germany, and India to our knowledge and, we are informed, in a number of other countries as of this writing, March 1978. Since our work is correct and true to scientific fact and presentation, subject to verification by following our material, which an increased number of scientists inform us, and the fact that more of our patents have been allowed and licensed for the public, we may have finally solved our difficulty in presenting these new scientific discoveries. However, the fact would remain, we believe, that no *proper* procedure exists in the United States, or in many other countries, to assist the independent researcher *adequately* in the funding of his work or presentation to the public. The changes in the governmental structure in 1978 in this regard are not sufficient.

It is possible that the awarding of the Nobel Prize in cancer research to Albert Roy Davis may come one day from the initiation of a foreign scientist who had the honesty and courage to present the Davis work to the Nobel Committee. The following correspondence is from Dr. Eng. Stefan N. Naydenov, Sofia, Bulgaria O. R. Institute, the first letter written to Dr. Davis with excerpts pertinent to this subject matter:

I have read your books *The Magnetic Effect* and *Magnetism and Its Effects on the Living System* with great interest and I can say they are the most original scientific papers I have ever read about this problem. I'm sure they would help us very much in our work. I succeeded to test some of your original projects. I'm in complete agreement with you and your books.

The following are copies of letter sent by Dr. Naydenov with his scientific opinion to Bengt Gustafsson, Professor, M. D., Secretary of the Nobel Committee for Physiology or Medicine, Karolinska Institutet, S-10401 Stockholm 60:

Excuse me that I dare to disturb you again but I think this matter will be very interesting to you. After reading the books, *Magnetism and Its Effects on the Living System* and *The Magnetic Effect*, by Albert Roy Davis and Walter C. Rawls, Jr., I am sending you a copy of my opinion about these books and copies of letters from Albert Szent-Gyorgyi and A. R. Davis with permission to send these materials to you.

I'm acquainted with the statutes of the Nobel Foundation which you observe strictly. My request is the materials to be put together with the letters I have sent to you under #428, Oct. 5, 1973, and #498 BG/EL, June 29, 1976. I would like you to pay attention to several facts namely Albert Roy Davis is the first scientist in the world who has made several great discoveries about magnetism and its effects on the living system. He is the first one who speaks about electromagnetic theory of cancer, and the effects of magnetic fields on cancers (counterclockwise spin). His laboratory findings explain unexplained till now functions in the living system. He discovers the secrecy of the cell on the atomic and electron level. I'm sure that all these materials which I'm sending to you would be used for an open discussion in the scientific community which discussion will tell its last and decisive word. All this is done for the benefit of Humanity.

Opinion

Dr. Eng. Stefan N. Naydenov, Sofia, Bulgaria O. R. Institute, about two books: *Magnetism and Its Effects on the Living System*, 1974, and *The Magnetic Effect*, 1975, by Albert Roy Davis and Walter C. Rawls, Jr.

Albert Roy Davis and Walter C. Rawls, Jr.,

I must say that the reading of your two books was a great pleasure to me. According to my opinion your scientific researches and discoveries in the field of magnetism are outstanding.

Your theory about biomagnetism of the living system allows the secrecy of the cell to be discovered on the atomic and electronic level. I think the scientists can't understand the secrecy of the many human and animal ailments especially the cancer without examining them in the light of your original discovery about biomagnetism.

The discovery made in 1936 by Albert Roy Davis that the magnet's energy is not homogeneous and the two poles of the magnet act to change

and alter biological system in two completely different ways is really in genius [*sic*].

All magnets have the magnetic equator (the Bloch Wall) where the energies are divided and changed as to their magnetic spin effect (by 180 degrees) which then presents us with two values of magnetic energy—South or positive and North or negative. The magnet's energy has two flow directions (another discovery). The "Ohm Law" is in genius used by Albert R. Davis to show the principles of magnet-magnetics laws which are similar if not exactly like to the electrical voltage and current flow laws.

A magnet's energy consists of polarized atoms of the molecules of the material of which it is made, all spinning in the same direction forming atomic energy in part. This gives us a new light for understanding better the atom and its energies.

Mode-modulation of the magnet energy by application of other frequencies (the frequency spectrum, the radio spectrum, the ether spectrum, the audible spectrum and the photoelectric spectrum) is a new field in the science which gives a great possibility in the hands of scientific researchers. Another great discovery is the "cable effect"—the energy radiated from the magnets is composed not of "lines of force" but of small "cables of force."

The photographic pictorial outlines obtained and photographed in color in their laboratory experiments have shown this phenomenon.

The most important discovery I think is the bioelectrical biomagnetics differences between the cancer cells and normal healthy cells, the effects of the magnetic poles' energy on cancers (N pole negative energy controls and arrests cancer development while when S pole positive energy is applied to cancers they become more advanced, grow and spread at an accelerated rate).

These and the other numerous discoveries show us that scientist Albert Roy Davis is one of the best scientists of the world in this field of science.

I am really happy that my electronic theory for determination of power or carcinogenicity etiology and treatment of cancer is completely confirmed by the experimental results obtained by Albert R. Davis, namely: Albert Davis has proved that the two poles' magnet energy is nonhomogeneous, two flow directions of magnetic energy, the electron spin effect and the effect of the N pole negative energy (counterclockwise spin). All these findings confirm my electron theory for cancer which combines all causes in one single cause for the development of cancer and in this way I find a single form of agent that would arrest all form of cancers.

Finishing, I would like to mention one fact more, Albert Szent-Gyorgyi has used incorrect some of these discoveries in his theory "Electronic Biology and Cancer" (substance of a lecture delivered at a Meeting of Nobel Laureates, June 26, Lindau, Germany) the missing of the "electron transport system" the break magnetic balance of . . . cancer and so on."

We have, in this chapter, presented opinions on our cancer research that typify the prevailing opposing views.

Having read our published books, we would hopefully believe the reader considers sufficient information is presented that would

initiate further research by competent persons verifying our initial work for implementation to the general public.

Some of this verification is already underway to successful adoption, in agriculture, energy savings, and areas other than our medical research. The future looks promising in that some of our discoveries in medical applications may also be well underway to implementation by the time this book is published.

We are optimistic that our work will be accepted for the good of all humanity. We are also practical concerning the difficulties impeding acceptance. As independent research scientists we publish our research experiments and findings with more details of our work than is generally found in scientific disclosures. Due to the fallacies existing in the procedural and administrative structure regarding new scientific disclosures, we have chosen to write our scientific disclosures in book publications, again with the hope that they can be read and understood by the nonscientist. Yet it is our opinion that anyone who searches for knowledge could well be called a scientist.

We have not turned away from the "accepted scientific procedures and administrative programs for implementing new scientific disclosures," but we are continuing our efforts for acceptance of our work through the bureaucratic means available. We still deplore the unwarranted impediments facing any independent researcher, and we believe the final acceptance of our work will come when more and more of the general public are familiar with the separate energies of magnetism, the benefits to health, welfare, and happiness that the adoption of our findings will bring to people all over the world. In this we have to be realistic. We know our work is true and correct and that it is only a matter of time before acceptance. Through other researchers so close to our discoveries, we see continuously science articles, discoveries, and problems occurring. These researchers are moving toward our directions and, combined with the progress of our work, give us the hope for a better world and survival in our time. As scientists, we pray that it is so.

X

THE FUTURE OF BIOMAGNETICS

Biomagnetism is a relatively new term applied to the understanding of a very old science, magnetism. Biomagnetism is the study of the effects of magnetic fields on biological systems. In the eastern world of science, predominantly in Russia, the term "Magnetobiology" is used to define research in this area.

The use of magnetic fields on biological systems is as old as the use of the earth's magnetic fields on any forms of living systems. Applications of magnetism by human use of the natural magnet, lodestone, can be traced into recorded history as far back as 200 B.C. and some evidence indicates earlier recognition. Reference is found that Hippocrates, the Greek physician considered the father of medicine (460 B.C.), pondered the "healing power radiating from his hands." In modern times, it has been firmly established in university and laboratory research that the hands of persons do radiate an energy of a magnetic nature. Earlier reference to the energies of magnetism as a possible healing force can be traced to Egypt, Mesopotamia, India, and the Far East, including China. The Yin and Yang of ancient Chinese acupuncture finds more understanding from the new research discoveries of magnetism with biological systems.

In more modern times we have the research of Drs. Walter Kilner and Baron Von Reichenbaek, as well as Cilbert, Mesmer, and Pasteur, the more than fifty treatises of Presman in Russia, and the outstanding work of the Barnothys at the University of Chicago. It would be impossible to list here the many hundreds of acclaimed scientists in their endeavors to find a scientific basis for reproducible facts on the application of magnetic fields to biological systems. The dedication of these researchers will be more fully recognized in the future benefits to humanity provided by their efforts and the efforts of those who continue inquiry into this area of science.

Much confusion has resulted in the history of magnetic research with biological systems. The properties of lodestone have attracted

many charlatans as well as many honest, dedicated researchers. Claims have been made that could not be substantiated. The science of biomagnetism has been maligned, misused, and very little understood.

It is now recognized by competent scientists that magnetic fields do affect biological systems. The difficulty has been in reproducing experiments over and over again at any time or place by anyone equipped and qualified to receive the same results.

With the breakthrough in identifying separate energies in magnetism, and not one energy as formerly believed, results on biological systems can now be programmed for desired results. This initial discovery in 1936 resulted in the awarding of the first patent on the separate energies of magnetism in 1976, U.S. Patent No. 3,947,533, entitled Magnetic Field Expansion and Compression Method. Other patents have been awarded and numerous applications filed in countries all over the world due to the developments from this initial discovery in 1936. Universities and research centers in many countries of the world are now reproducing the initial experiments on the separate energy effects on biological systems. The present status of biomagnetism can be understood as a sleeping giant that is now awakening and will be heard throughout all civilizations. From the information now available it is reasonable to forecast many applications of biomagnetism in the near future to the benefit of humanity. The most noteworthy will be the use of natural magnetic energy, without the aid of drugs or chemicals, in the following:

1. The arrest of many, if not all, diseases, including cancer and heart disease.
2. The regulation and control of natural bodily functions to a great degree, eliminating further prolonged treatment and instrumentation with the heart, lungs, pancreas, kidneys, including the control of hypertension.
3. Prolonging the life of biological systems by not only the arrest of ailments, but by a method of slowing down the aging process and increasing strength and vigor to function more adequately with one's own natural biological energies.
4. The elimination of many forms of surgery and radioactive treatments by a more natural method of arresting problems and strengthening the system.

5. More effective control over the nerve and muscle systems, the bioelectrical brain functions, aiding the arrest and regulation of many mental and nervous disorders.

6. A method of diagnosis more effective than X rays or other electrical or chemical analysis, by an experienced diagnostician in less than five minutes.

7. An effective, consistent method of feed programming to effect a 30 percent increase in agricultural yield, or more, per acre with over 50 percent increase in protein and nutrients to aid the increasing population and starving people in the world.

8. More effective understanding of the air, water, and other natural resources in our environment by applying the new developments in physics and related natural sciences for a more natural and longer existence of biological systems, with inroads into more effective use of natural energy and power to relieve the energy problems facing the world's people.

9. Advancements in technology for more adequate functioning under the seas, below the earth, and outer space.

10. An increased understanding of humanity's role and functions with Nature and one's God.

These noteworthy items are not speculation. Reproducible experiments over many years have proved effective. Independent research centers, scientists, and major universities of the world are reproducing the experiments necessary to establish worldwide recognition and acceptance. Biomagnetics is a new world of science. The secrets of Nature that have been and are being revealed can be used to aid all humanity without regard to race, creed, or religion. How effective the future adoption of biomagnetics for peace and order in and with Nature will now depend on the conscience of mankind. Can old theories be disregarded? Can selfishness, greed, and narrow-mindedness give way to better understandings of Nature's energies for beneficial applications to humanity? We prefer an optimistic outlook for the future consciousness of humanity.

It has been firmly established that the separate energies of magnetism are similar to the natural energies found in all biological systems. To conform with the laws of physics and natural sciences the separate magnetic energies are called negative and positive. Negative magnetic energy spins to the left, counterclockwise in

Nature, assisting amino acids in offsetting disease and decay. Thus, negative energy slows the dying process and extends life. Positive magnetic energy spins to the right, clockwise in Nature, giving strength to all life forms, including viruses and bacteria. These two forms of natural energy exist in a balance of peace and order functioning in harmony throughout all life. When an imbalance occurs from misuse, interference, or ignorance, disease and environmental problems occur. To regain the balance of life energies, the energy that is lacking must be applied to the life form. Biomagnetics, with the understanding and application of the separate magnetic energies, is a new approach that promises to fill this void in medical and natural sciences.

Since World War II Russian scientists have programmed determined research into magnetism with the largest funding of any country in the world. The published Russian discoveries into magnetism have been outstanding in progressing the understanding of magnetic fields. However, the Western discovery and applications of separate magnetic fields that is gaining acceptance by its ability to reproduce experiments over and over again with the expected result indicates a decided advance in the use of magnetic fields on biological systems. Accepted scientific use and application to the needs of humanity appear to be within the foreseeable future.